

**SONY**

---

PORTABLE VIDEOCASSETTE RECORDER

# PVV-1P

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## SERVICE MANUAL

Vol.2 1st Edition Revised 1  
Serial No.10001 and Higher

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**BETACAM SP**  
**2000PRO**

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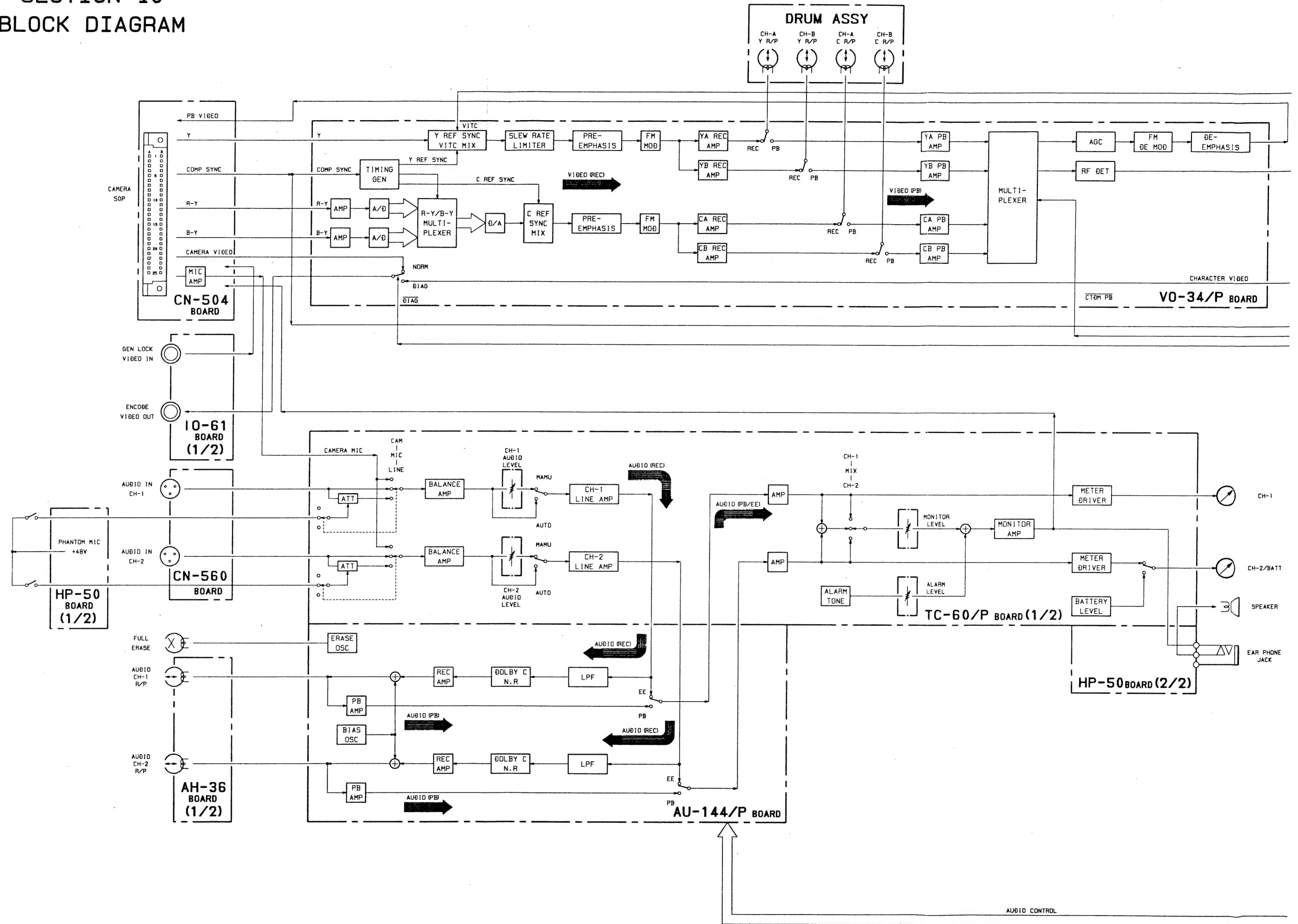
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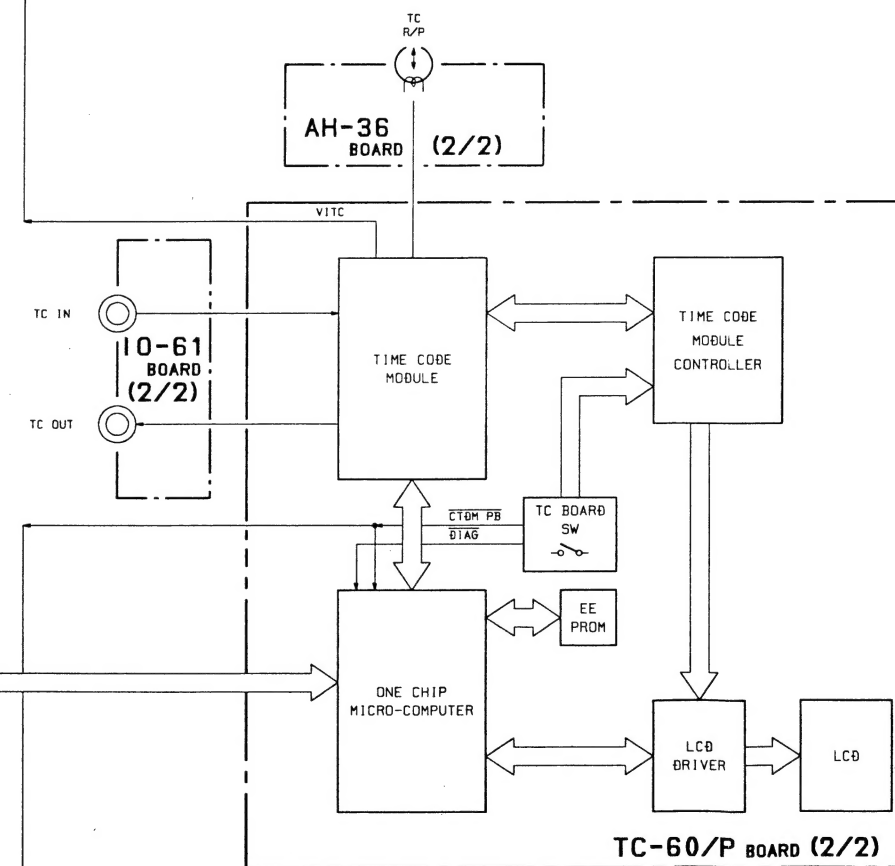
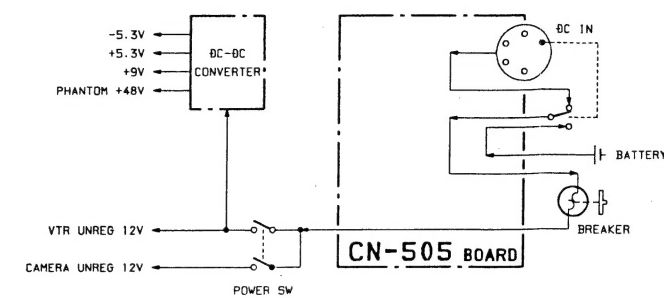
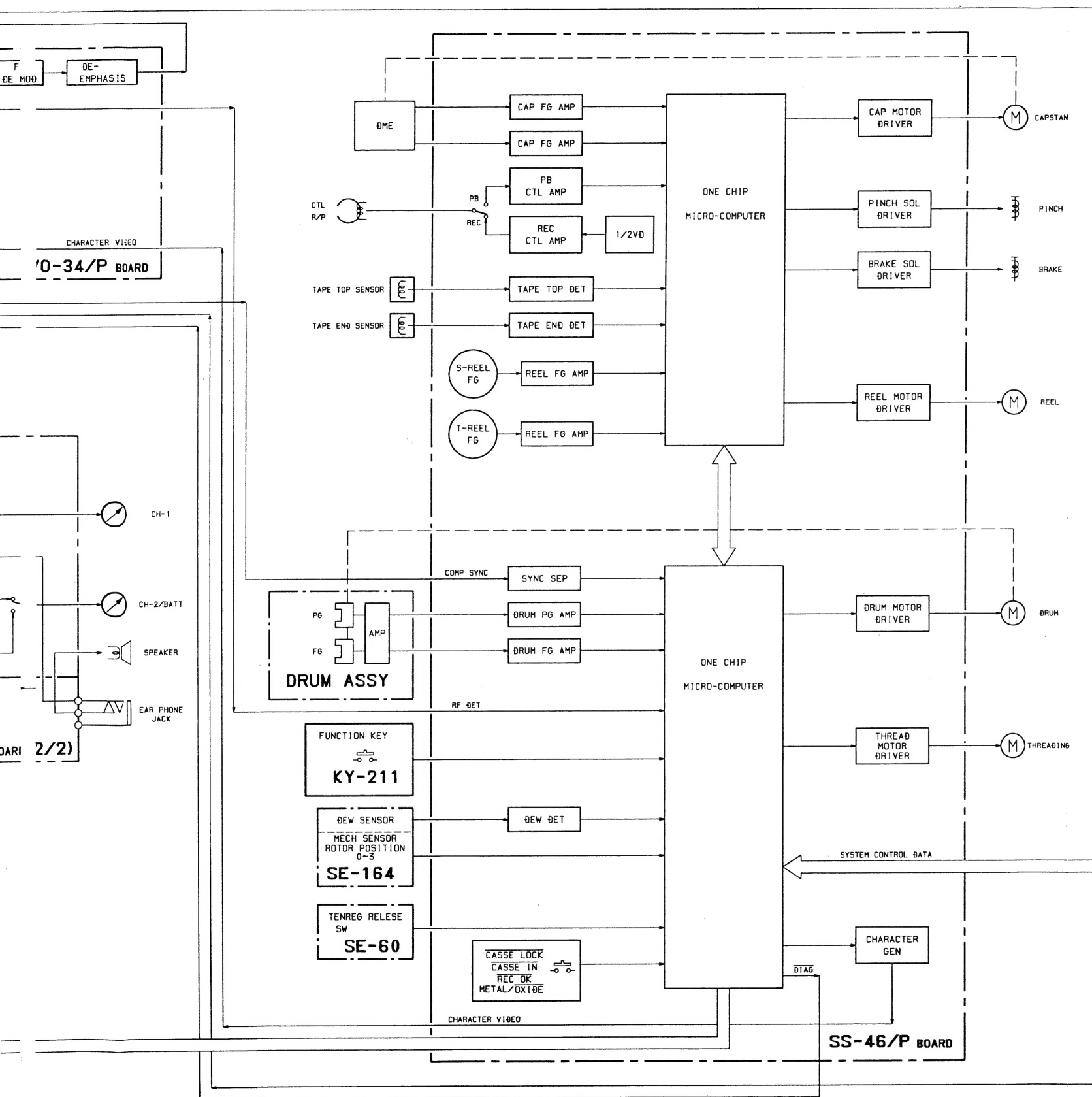
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# SECTION 10 BLOCK DIAGRAM

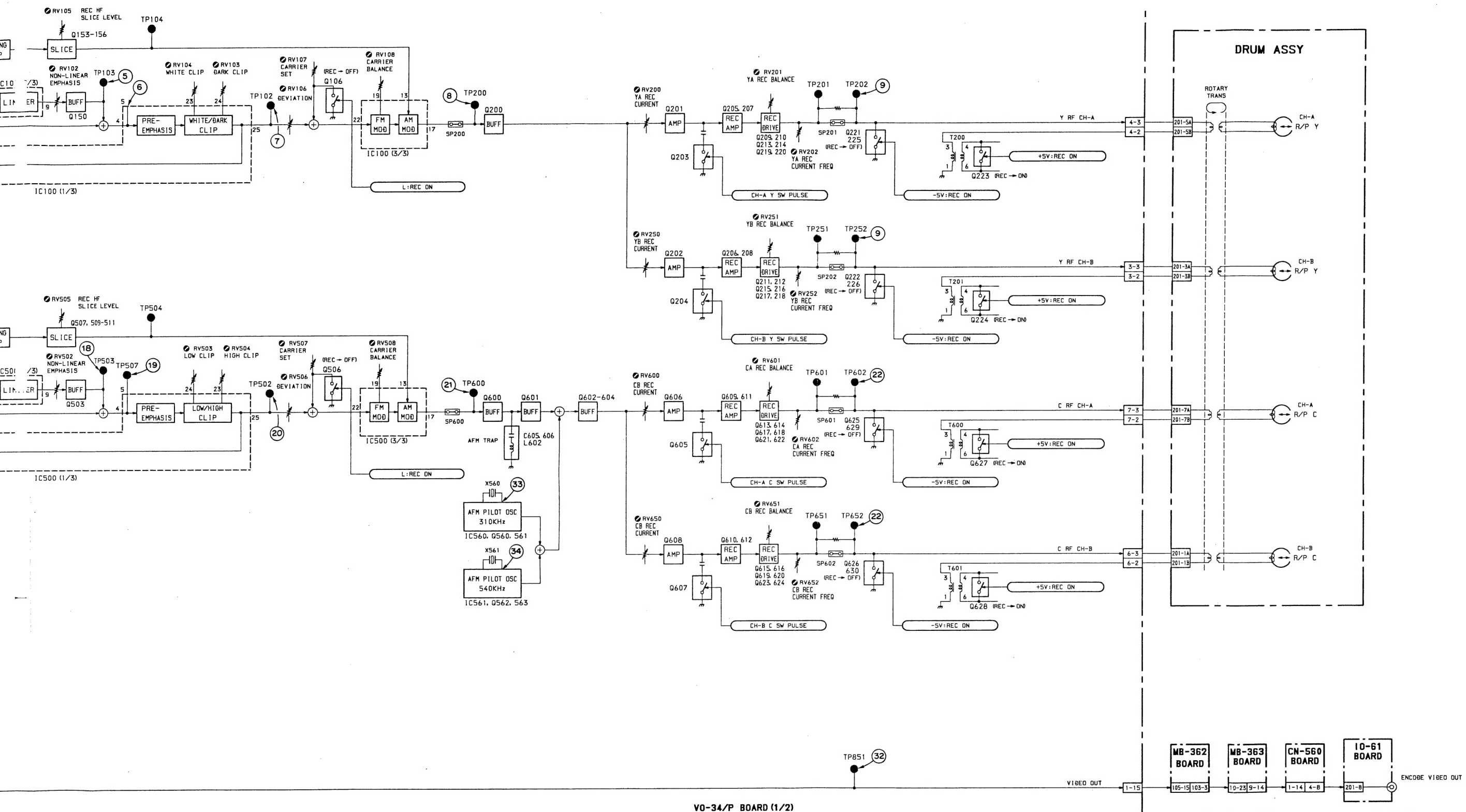
## OVERALL BLOCK DIAGRAM





## OVERALL BLOCK DIAGRAM

PVV-1 (J) : #10001-  
PVV-1 (UC) : #10001-  
PVV-1P (EK) : #10001-



V0-34/P BOARD (1/2)

V0-34/P BOARD.....11-2 PAGE

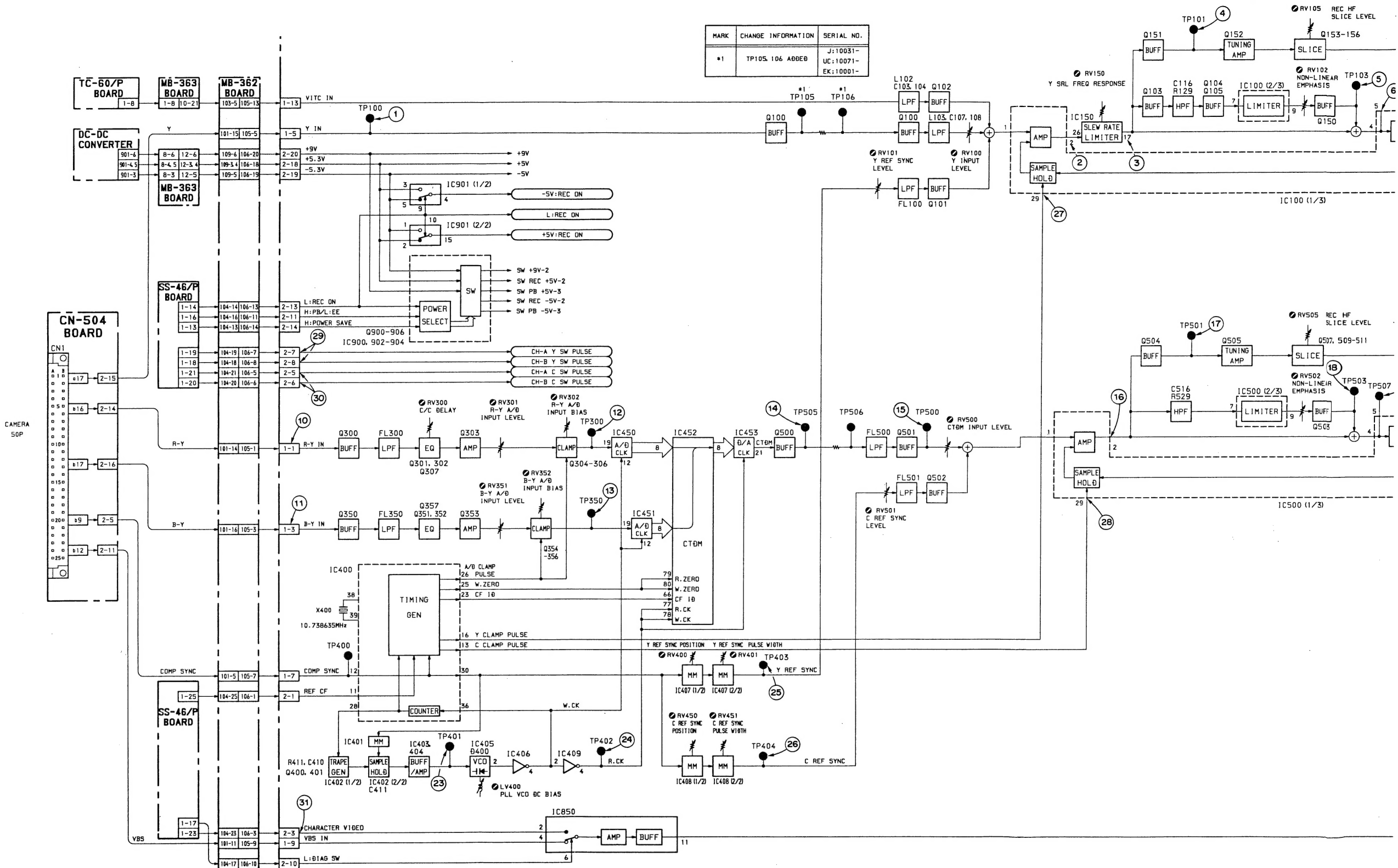
VIDEO (1/2) BLOCK DIAGRAM

PVV-1 (J) : #10001-  
PVV-1 (UC) : #10001-  
PVV-1P (EK) : #10001-

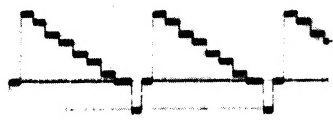
VIDEO (1/2) BLOCK DIAGRAM  
Video REC

VO-34/P BOARD (1/2)

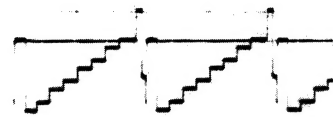
REF NO.	ADDRESS	REF NO.	ADDRESS
CN1	F-2	RV502	A-2
CN2	F-4	RV503	B-2
CN3	D-5	RV504	B-3
CN4	D-5	RV505	A-3
CN6	B-5	RV506	A-2
CN7	B-5	RV507	A-3
IC100	C-2	RV508	B-2
IC150	B-3	RV600	A-4
IC400	D-1	RV601	A-5
IC401	B-1	RV602	A-5
IC402	C-1	RV650	C-4
IC403	B-1	RV651	B-5
IC404	B-1	RV652	C-5
IC405	B-1	TP100	C-2
IC406	B-2	TP101	B-3
IC407	C-1	TP102	D-3
IC408	B-1	TP103	C-3
IC409	B-1	TP104	C-3
IC450	D-1	TP105	C-2
IC451	D-1	TP106	C-2
IC452	C-1	TP200	C-3
IC453	C-2	TP201	D-5
IC500	A-2	TP202	C-5
IC560	A-5	TP251	D-5
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IC900	E-4	TP350	E-1
IC901	F-3	TP400	C-1
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RV101	B-2	TP501	A-2
RV102	C-3	TP502	B-2
RV103	D-3	TP503	A-2
RV104	D-3	TP504	A-3
RV107	D-3	TP505	B-2
RV108	C-3	TP506	B-2
RV150	B-3	TP507	A-2
RV200	C-4	TP600	A-3
RV201	C-5	TP601	A-5
RV202	C-5	TP602	A-5
RV250	D-4	TP651	C-5
RV251	D-5	TP652	C-5
RV252	E-5	TP851	F-2
RV300	E-1	X400	D-1
RV301	E-1	X560	A-5
RV302	E-1	X561	A-4
RV351	E-1		
RV352	E-2		
RV400	C-2		
RV401	C-2		
RV450	B-2		
RV451	C-2		
RV500	A-2		
RV501	A-1		



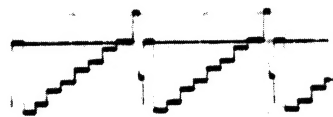
① ■ TP100 Y 1Vp-p REC mode



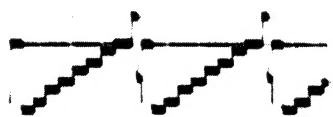
② IC100-2 pin 1Vp-p REC mode



③ IC150-17 pin 1Vp-p REC mode



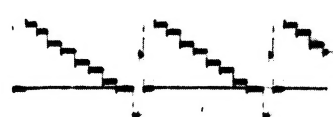
④ ■ TP101 Y 1Vp-p REC mode



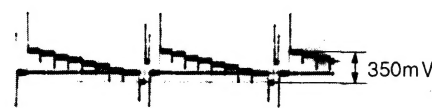
⑤ ■ TP103 100mVp-p REC mode



⑥ IC100-5 pin 360mVp-p REC mode



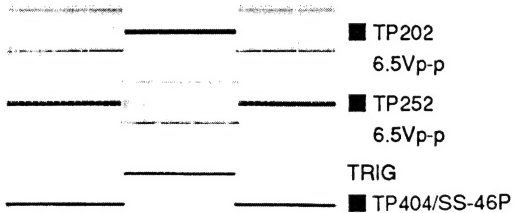
⑦ ■ TP102 REC mode



⑧ ■ TP200 Y-FM 440mVp-p REC mode



⑨ REC mode



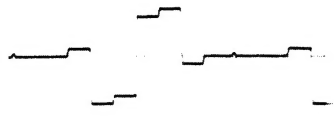
⑩ CN1-1 pin R-Y 700mVp-p REC mode



⑪ CN1-3 pin B-Y 700mVp-p REC mode



⑫ ■ TP300 R-Y 1.45Vp-p REC mode



⑬ ■ TP350 B-Y 1.45Vp-p REC mode



⑭ ■ TP505 CTDM 1.45Vp-p REC mode



⑮ ■ TP500 CTDM 715mVp-p REC mode



⑯ IC500-2 pin CTDM REC mode



⑰ ■ TP501 REC mode



⑱ ■ TP503 45mVp-p REC mode



⑲ ■ TP507 REC mode



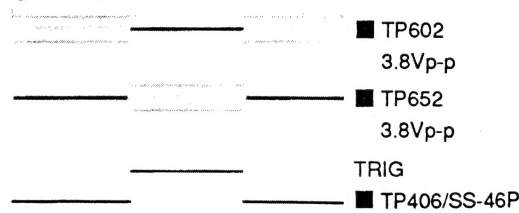
⑳ ■ TP502 REC mode



㉑ ■ TP600 C-FM 440mVp-p REC mode



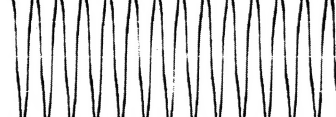
㉒ REC mode



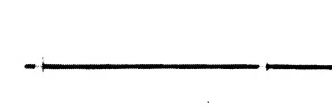
㉓ ■ TP401 PLL VCO REC mode



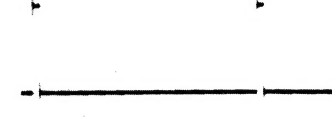
㉔ ■ TP402 R-CK 6Vp-p REC mode



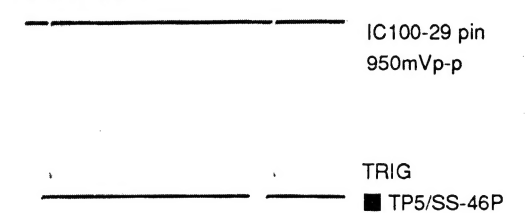
㉕ ■ TP403 Y REF SYNC 5Vp-p REC mode



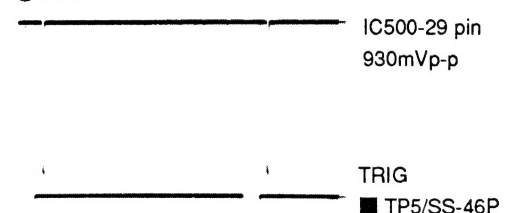
㉖ ■ TP404 C REF SYNC 5Vp-p REC mode



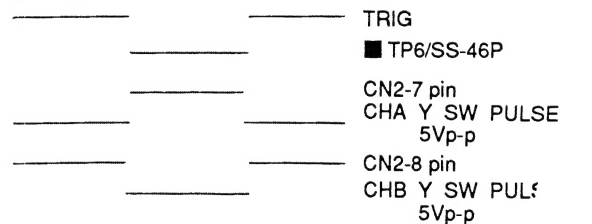
㉗ REC mode



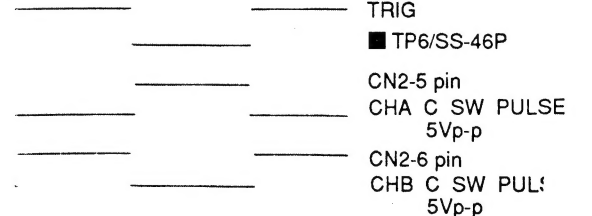
㉘ REC mode



㉙ REC mode



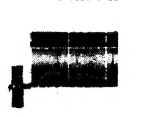
㉚ REC mode



㉛ CN2-3 pin



㉜ ■ TP851



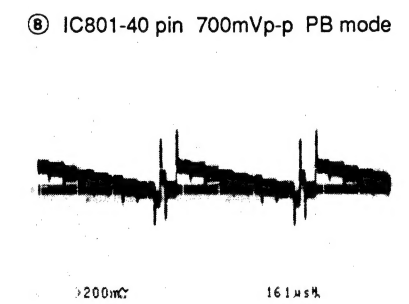
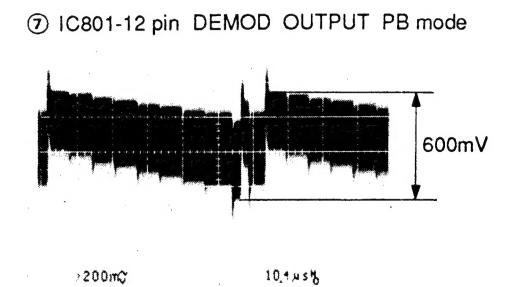
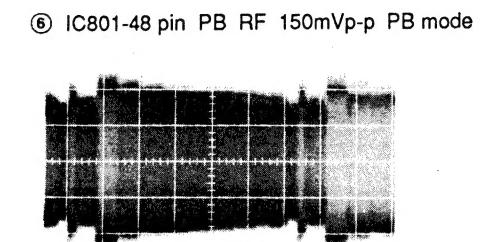
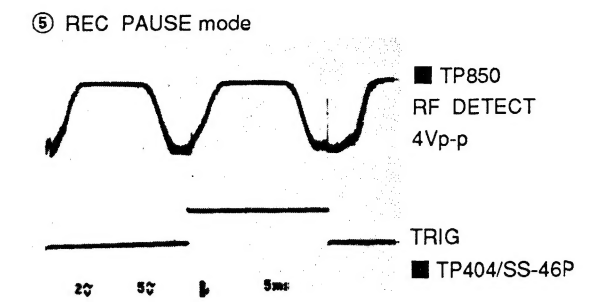
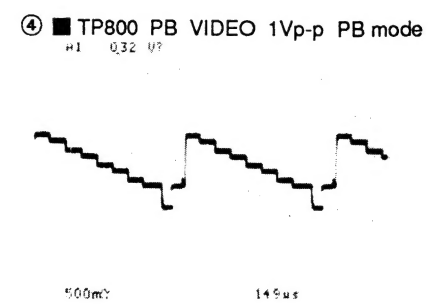
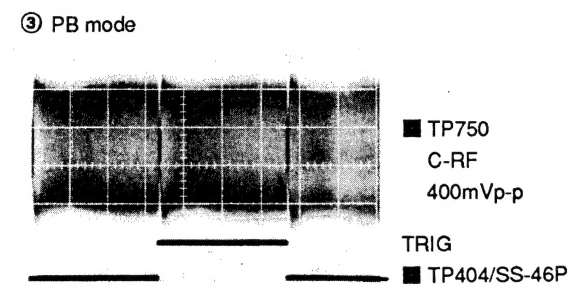
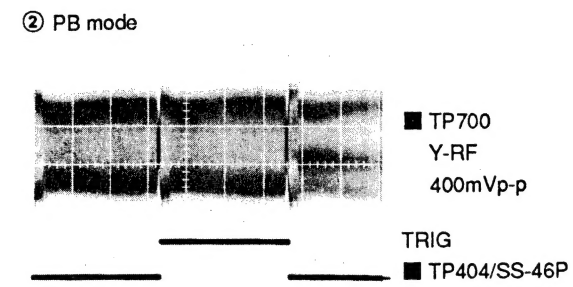
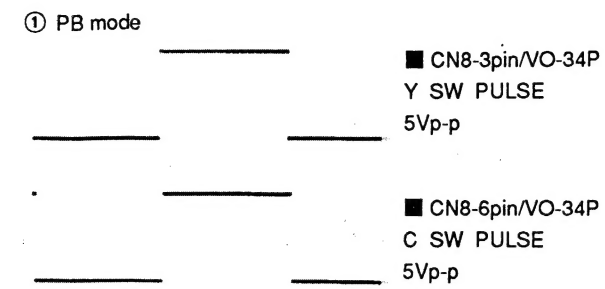
㉝ ■ IC560-4

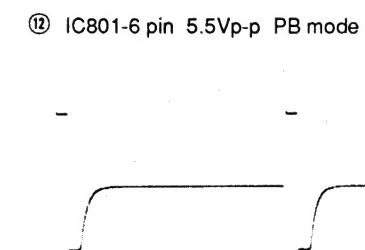
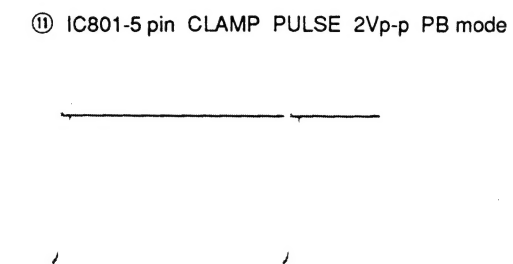
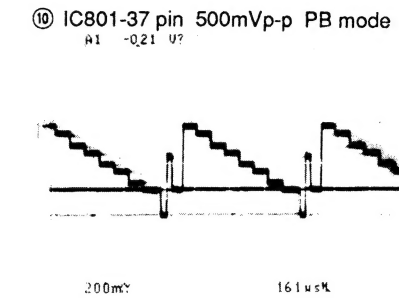
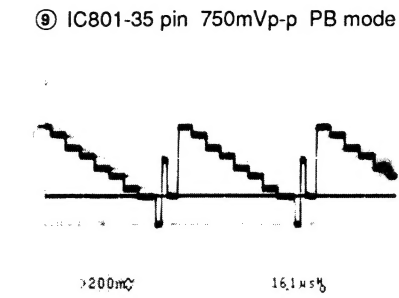
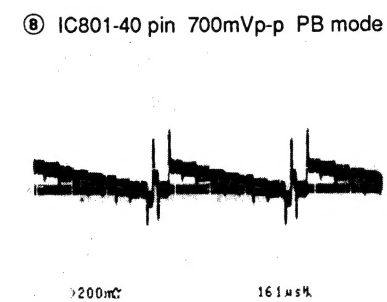
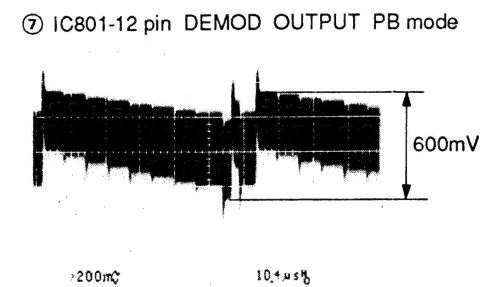
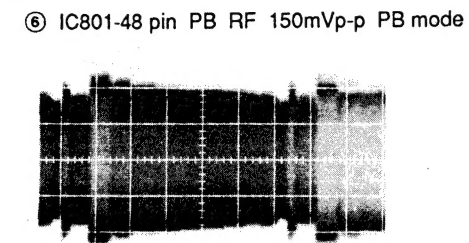
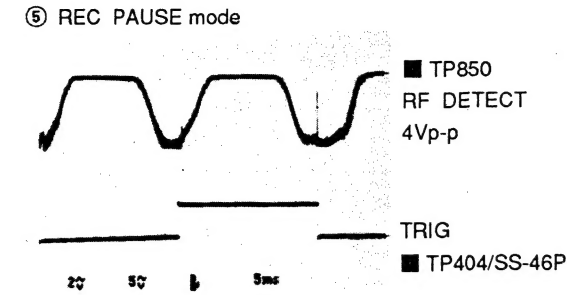
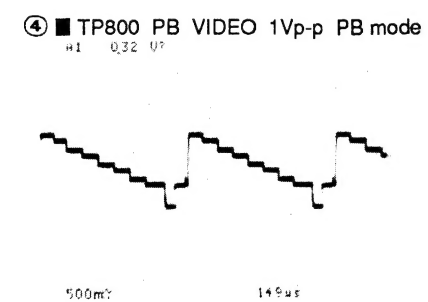
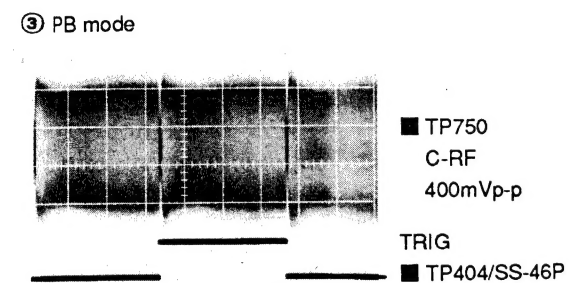
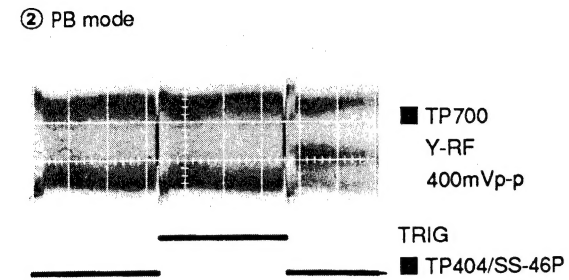
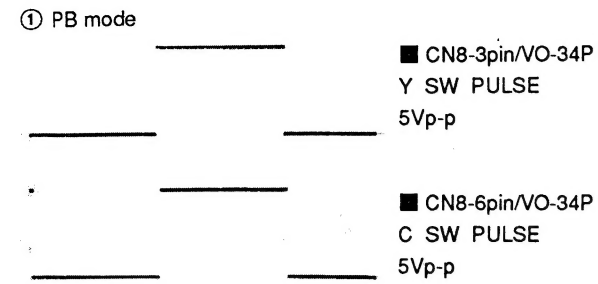


㉞ ■ IC561-4



REC n  
PB mc



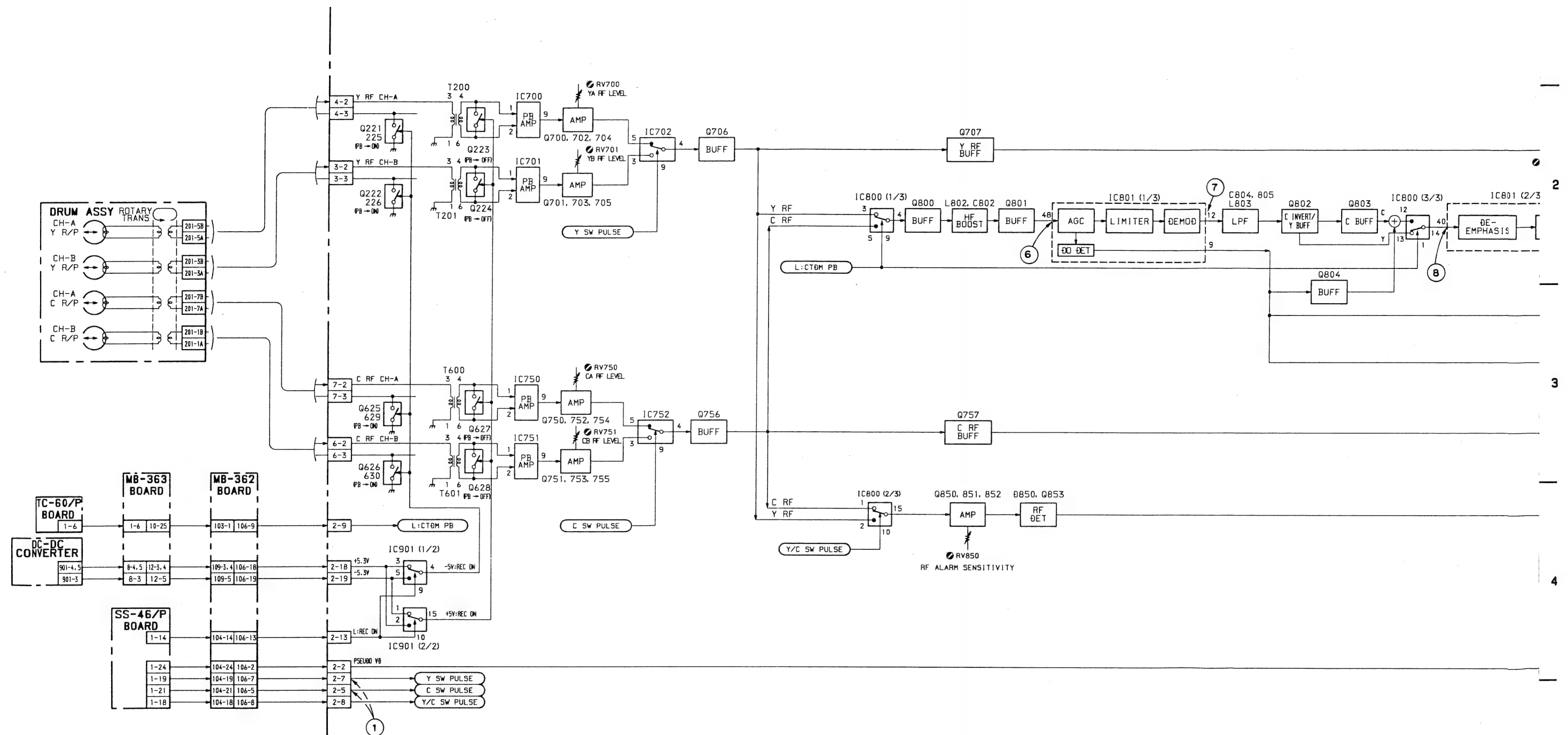


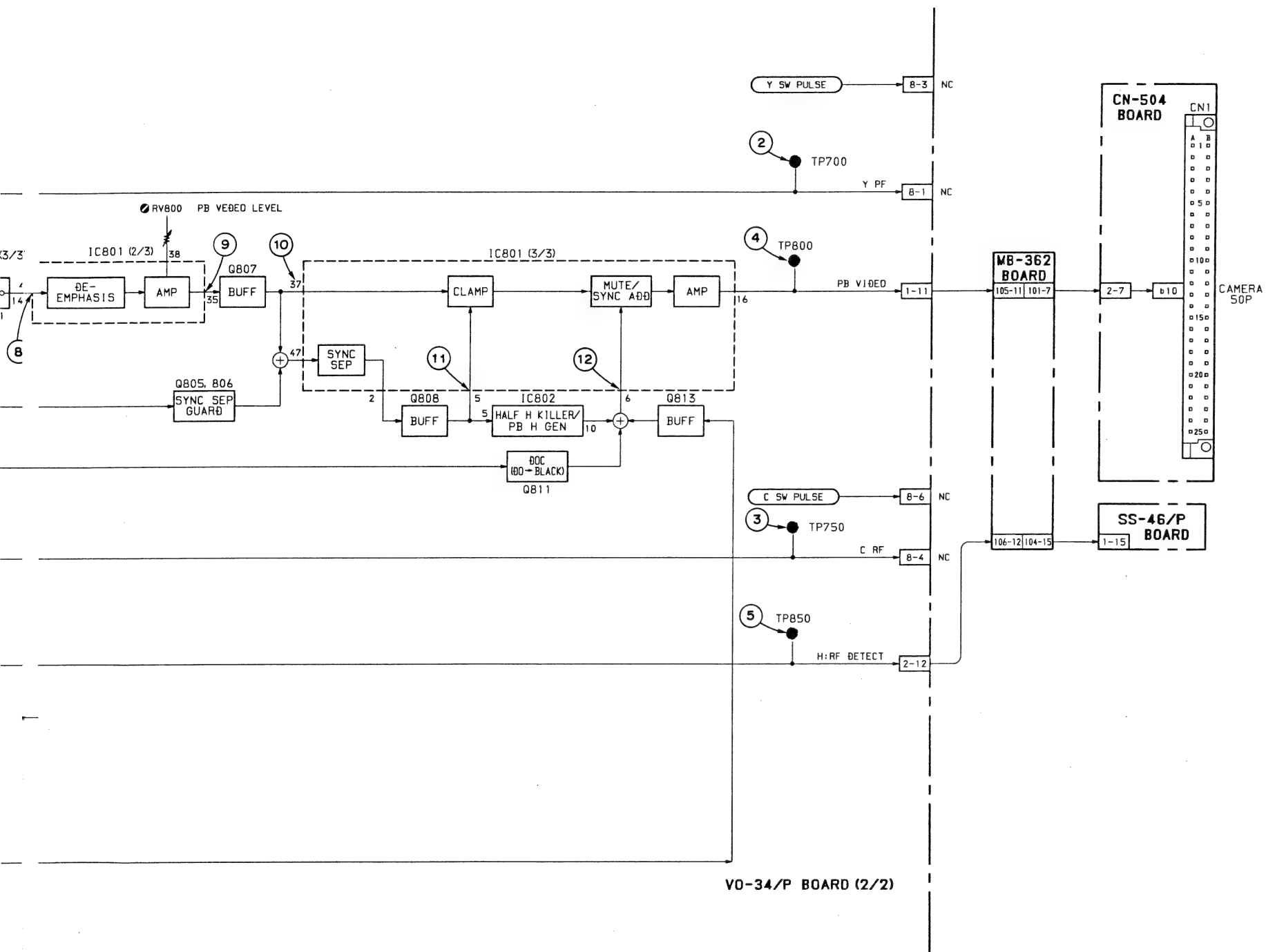
REC mode.....Record the 100 % color bars signal.  
PB mode.....Play back the color bars signal portion  
of the alignment tape CR5-1B PS.



VIDEO (2/2) BLOCK DIAGRAM

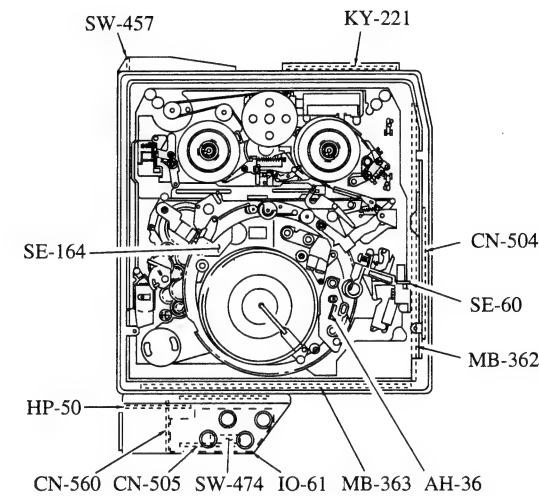
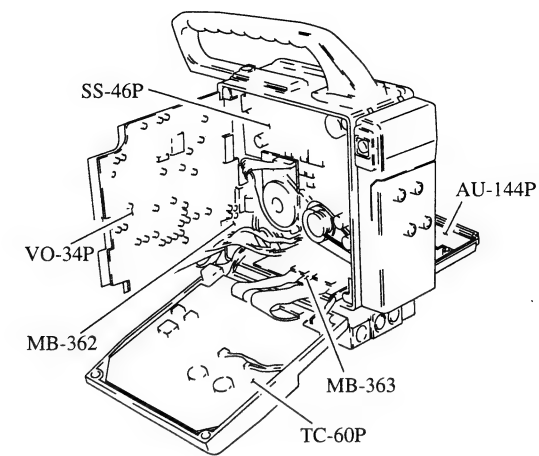
Video PB  
RF Detect





VO-34/P BOARD (2/2)	
REF NO.	ADDRESS
CN1	F-2
CN2	F-4
CN3	D-5
CN4	D-5
CN6	B-5
CN7	B-5
CN8	D-3
IC700	D-5
IC701	D-5
IC702	D-4
IC750	B-5
IC751	B-5
IC752	B-4
IC800	D-3
IC801	E-2
IC802	E-2
IC901	F-3
RV700	D-4
RV701	D-4
RV750	B-4
RV751	B-4
RV800	D-2
RV850	E-4
TP700	E-3
TP750	C-4
TP800	F-2
TP850	F-4

Location of the Printed Circuit Boards



VO-34/P BOARD.....11-2 PAGE

VIDEO (2/2) BLOCK DIAGRAM

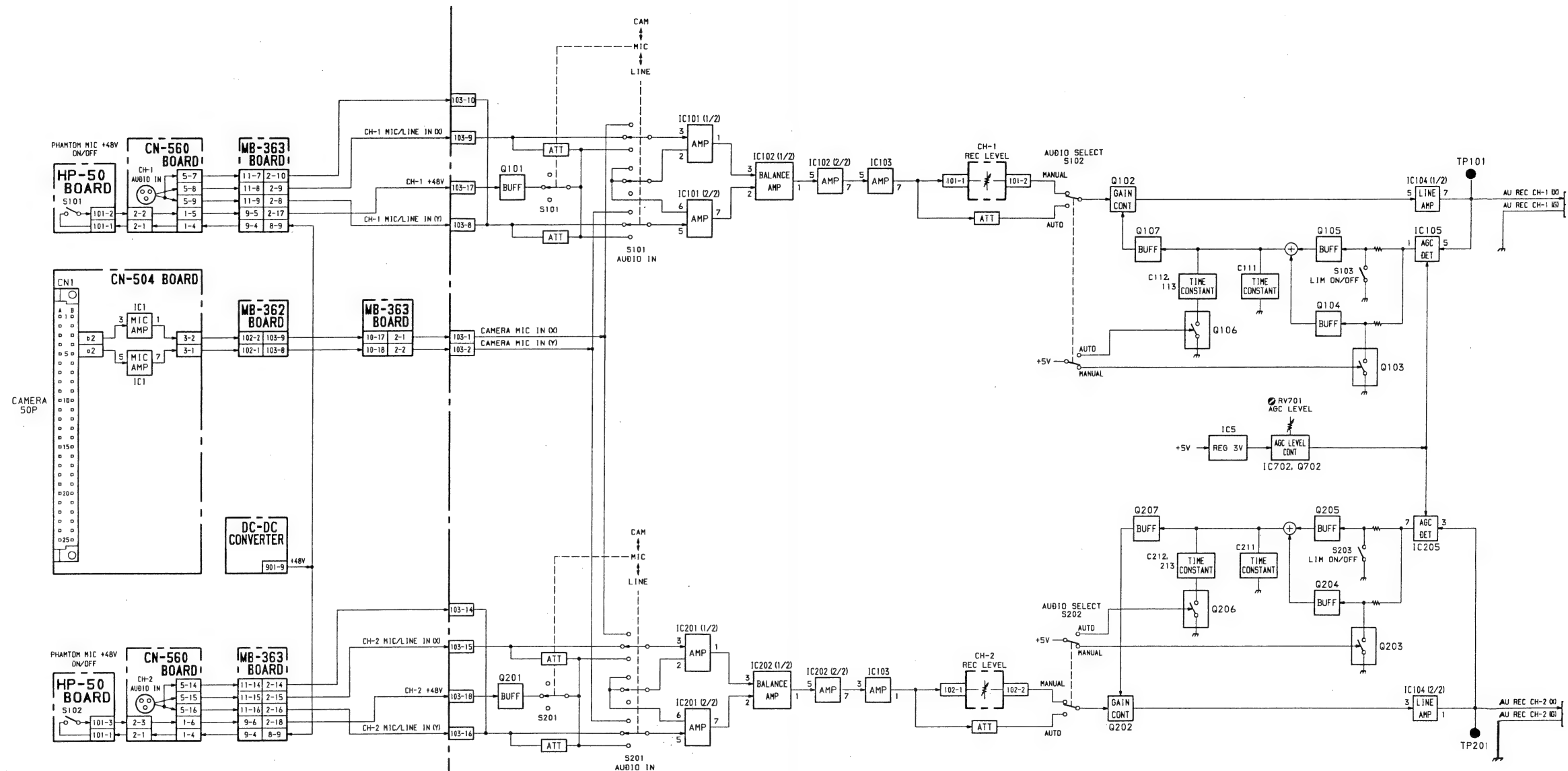
PVV-1 (J) : #10001-  
PVV-1 (UC) : #10001-  
PVV-1P (EK) : #10001-

AUDIO (1/2) BLOCK DIAGRAM  
Audio REC/PB

AU-144P BOARD TC-60P BOARD (1/3)

REF NO.	ADDRESS	REF NO.	ADDRESS
CN1	A-2	CN101	C-4 (B)
CN2	G-2	CN102	B-4 (B)
CN4	B-1	CN103	B-7 (B)
CN5	G-1	IC5	F-3
CN6	D-1	IC101	B-6 (B)
CV131	F-1	IC102	B-6 (B)
CV231	F-1	IC103	B-5 (B)
IC1	G-2	IC104	B-4 (B)
IC2	C-2	IC105	B-5 (B)
IC111	F-2	IC201	B-6 (B)
IC112	F-2	IC202	A-6 (B)
IC301	D-1	IC205	A-5 (B)
IC302	C-1	IC702	E-5 (B)
IC303	B-1	RV701	E-5 (B)
IC501	A-2	TP101	C-4 (B)
IC502	A-2	TP201	B-4 (B)
IC503	B-2		
IC504	A-2		
IC602	A-2		
IC603	A-2		
LV111	F-2		
LV131	F-1		
LV211	G-2		
LV231	F-1		
RV101	B-2		
RV111	F-2		
RV112	F-2		
RV113	F-2		
RV201	B-2		
RV211	F-2		
RV212	G-2		
RV302	C-1		
RV303	C-1		
RV402	C-1		
RV403	C-1		
TP101	E-2		
TP102	F-2		
TP201	F-2		
TP202	F-2		
TP301	D-1		
TP302	D-1		
TP303	A-2		
TP401	D-1		
TP402	D-1		
TP403	A-1		

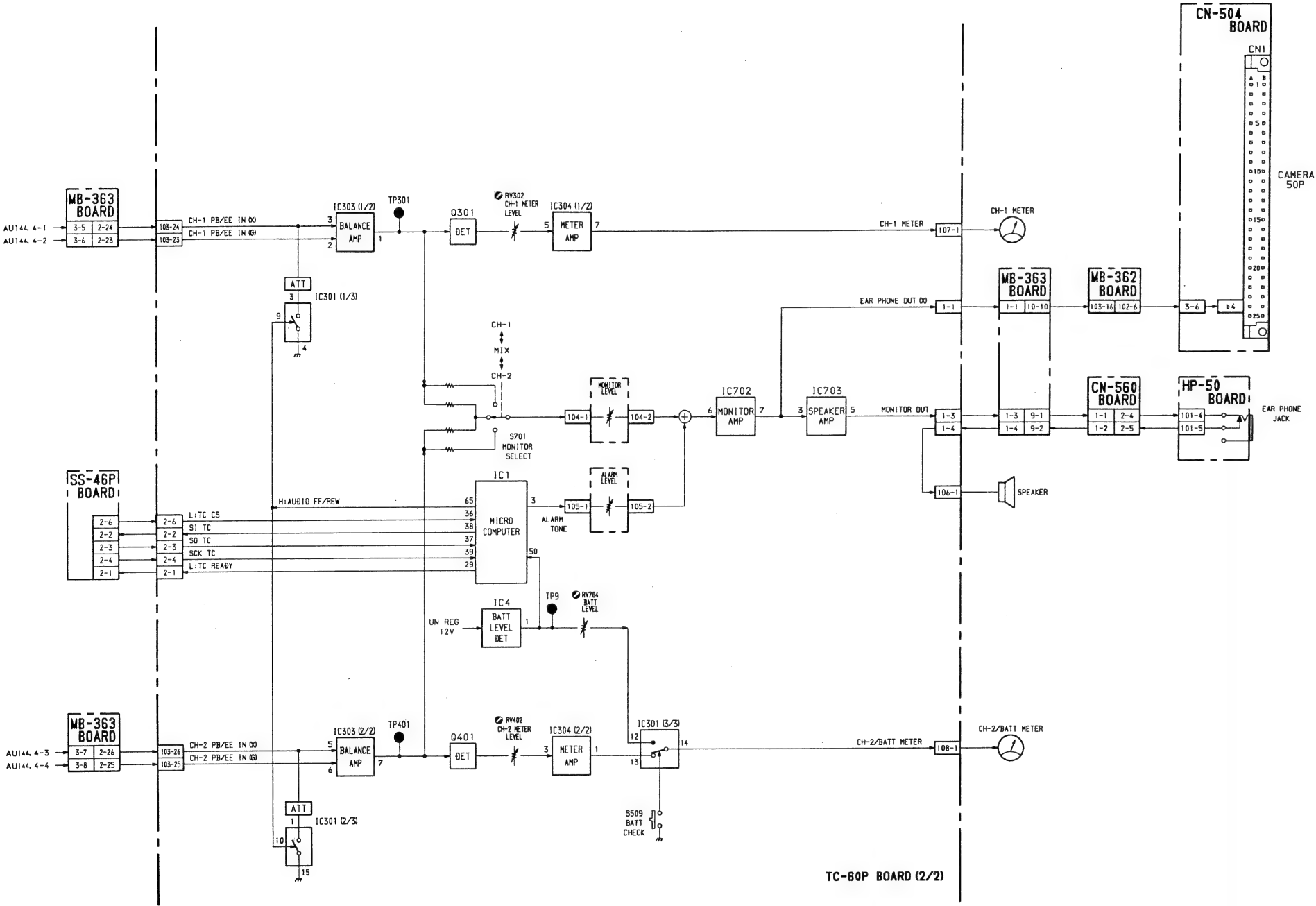
---A SIDE  
---(B); ---B SIDE



TC-60P BOARD (1/3)



AUDIO (2/2) BLOCK DIAGRAM  
Audio Meter/Monitor AMP



TC-60P BOARD (2/3)

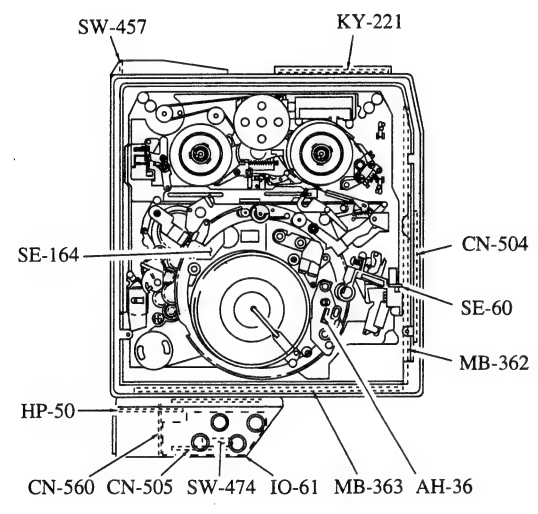
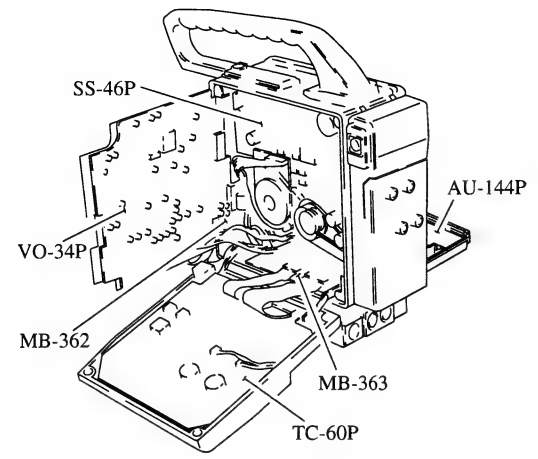
REF NO.	ADDRESS
CN1	D-7 (B)
CN2	E-7 (B)
CN103	B-7 (B)
CN104	G-4 (B)
CN105	G-4 (B)
CN106	G-3 (B)
CN107	C-1 (B)
CN108	B-1 (B)
IC1	F-4
IC4	F-3 (B)
IC301	B-1
IC303	A-3 (B)
IC304	B-2 (B)
IC702	E-5 (B)
IC703	E-5 (B)
RV302	C-1
RV402	B-1
RV704	A-1
TP9	F-3 (B)
TP301	A-3 (B)
TP401	A-3 (B)

---A SIDE  
---(B)---B SIDE

Location of the Printed Circuit Boards

DAF 2/3)

ADDRESS
7 (B)
(B)
(B)
G-4 (B)
(B)
(B)
C-1 (B)
B-1 (B)
(B)
B-1
A-2 (B)
(B)
(B)
E-5 (B)
A-1
F-3 (B)
(B)
(B)



1

2

3

4

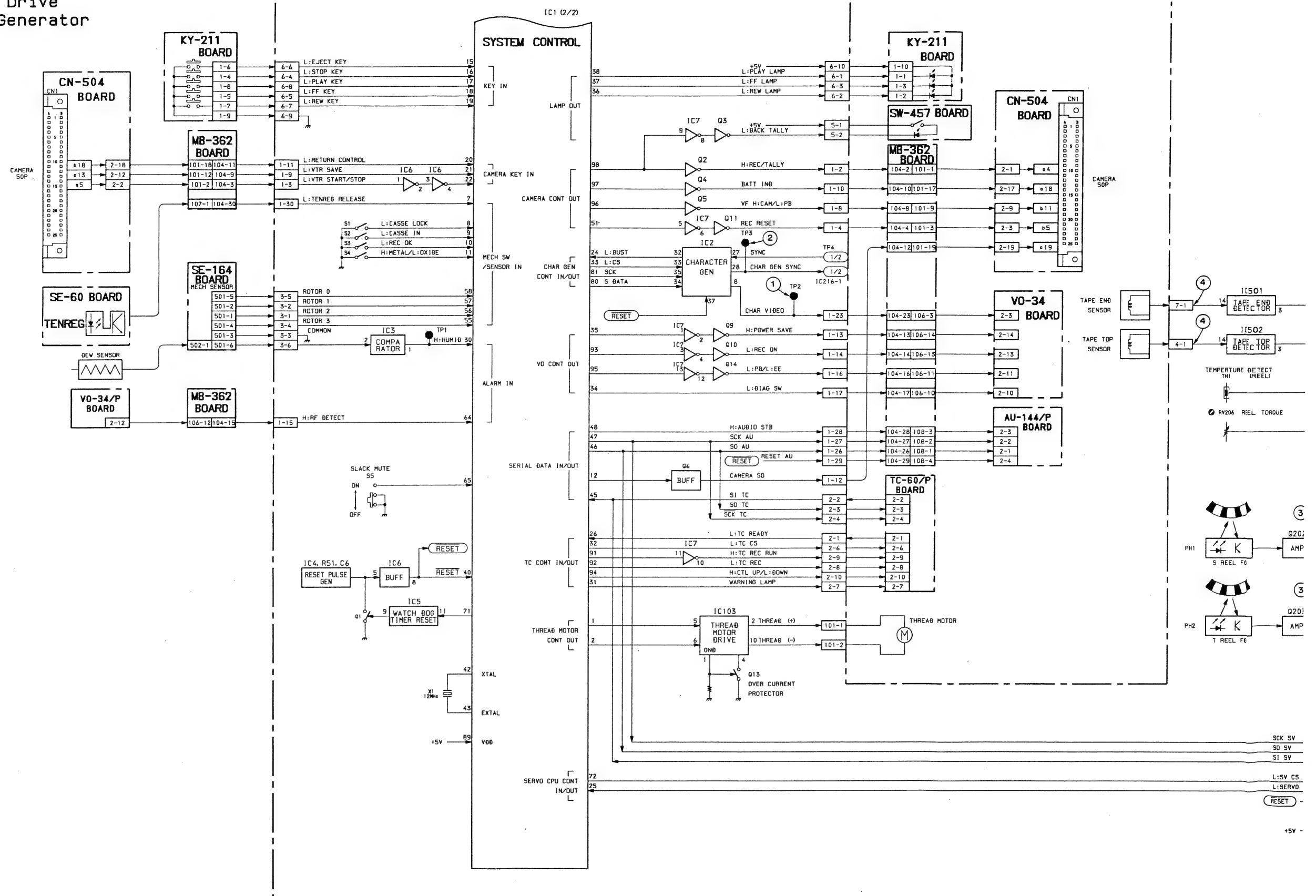
5

SYSTEM CONTROL BLOCK DIAGRAM  
System Control  
Reel Motor Drive  
Character Generator

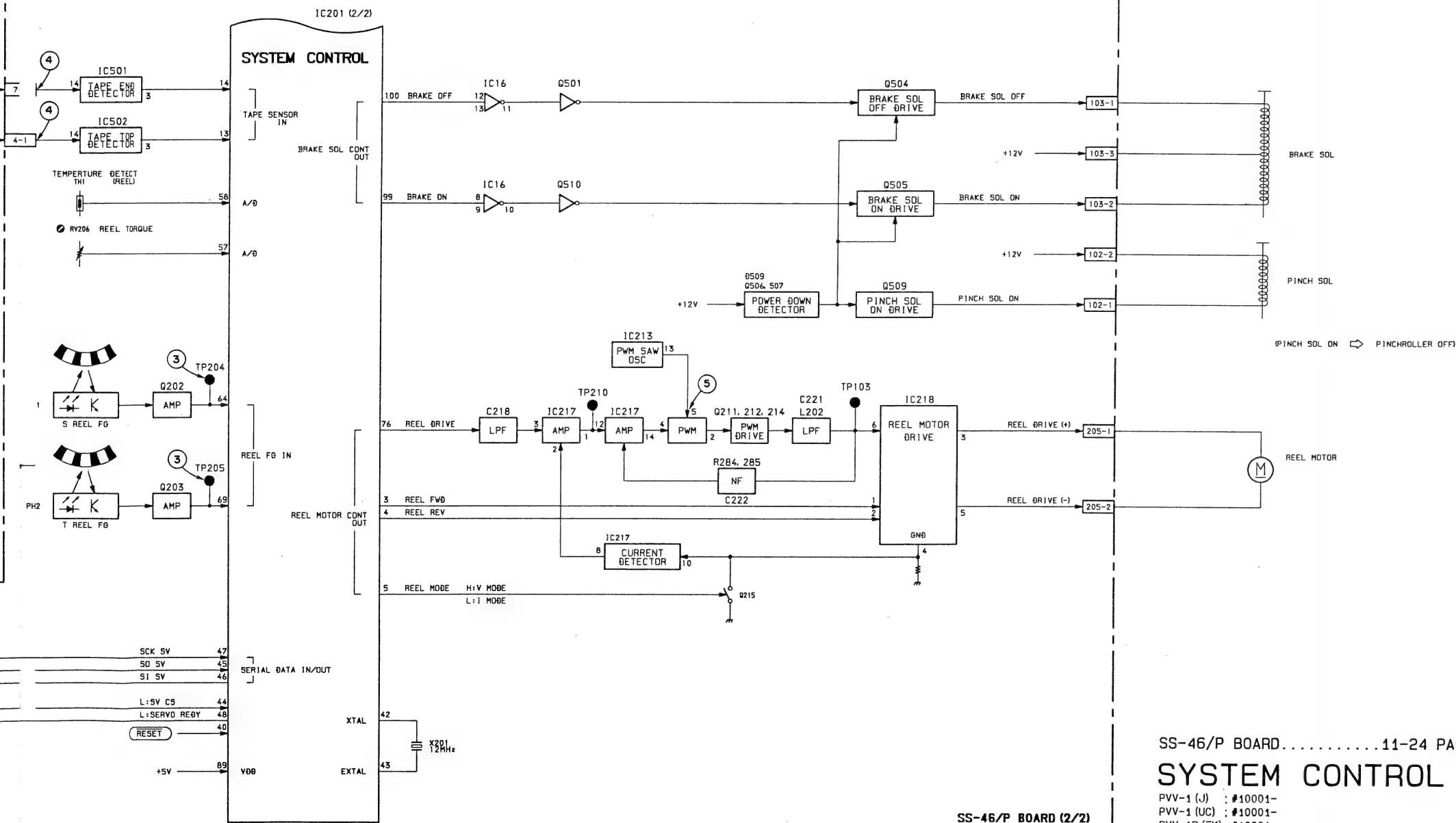
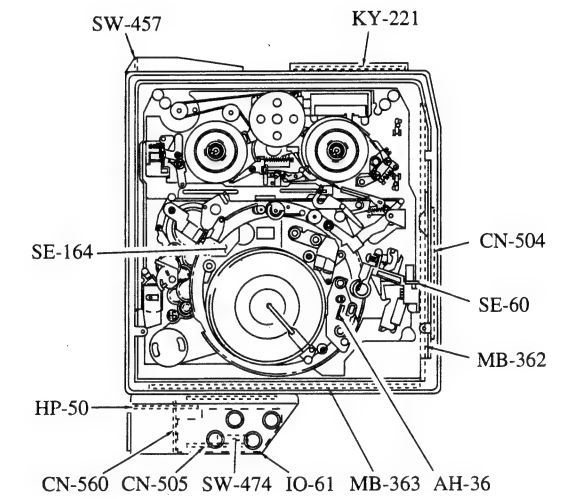
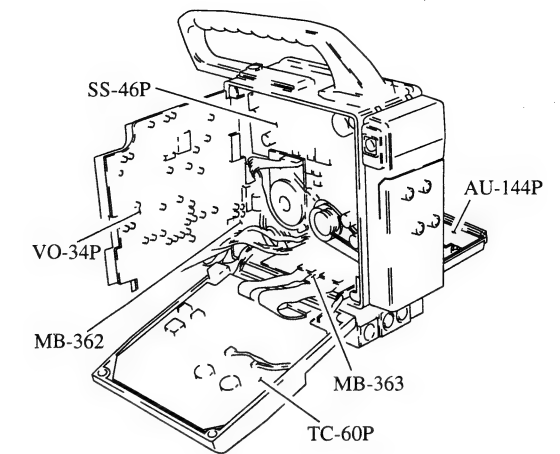
SS-46/P BOARD (2/2)

REF NO.	ADDRESS
CN1	A-1 (B)
CN2	B-3
CN3	F-4
CN4	F-3
CN5	F-2
CN6	C-1
CN7	A-3
CN101	F-6
CN102	A-3
CN103	A-1
CN205	E-2
IC1	B-1
IC2	D-3
IC3	F-4
IC4	C-3
IC5	C-3
IC7	B-3
IC16	C-3
IC103	F-5
IC201	C-1
IC213	F-5
IC217	F-5
IC218	F-3
IC501	A-3
IC502	F-3
RV206	D-5 (B)
TP1	E-3
TP2	D-3
TP3	D-3
TP103	F-3
TP204	D-2
TP205	D-2
TP210	E-5
X1	C-1
X201	E-2

--A SIDE  
--(B); --B SIDE



Location of the Printed Circuit Boards



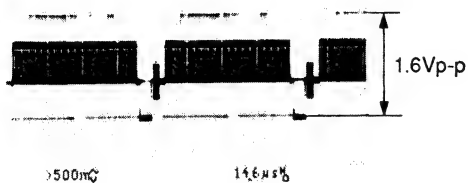
SS-46/P BOARD.....11-24 PAGE

# SYSTEM CONTROL BLOCK DIAGRAM

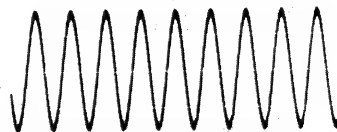
PVV-1 (J) : #10001-  
PVV-1 (UC) : #10001-  
PVV-1P (EK) : #10001-



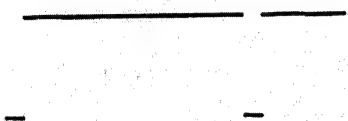
① ■ TP2 CHAR VIDEO DIAG mode



④ CN4-1 pin/CN7-1 pin 180mVp-p PB mode



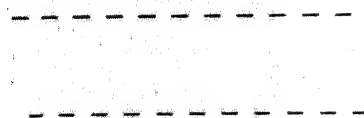
② ■ TP3 CHAR GEN SYNC 5.5Vp-p STANDBY mode



⑤ IC213-5,7,9 PWM SAW 1.5Vp-p

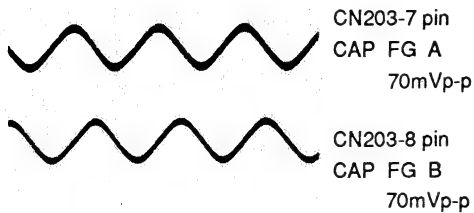


③ ■ TP204 S REEL FG 5.3Vp-p FF/REW mode  
■ TP205 T REEL FG 5.3Vp-p FF/REW mode

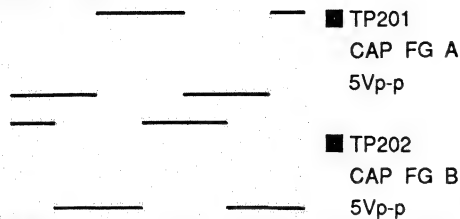


# SERVO BLOCK DIAGRAM

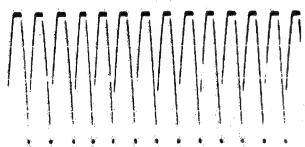
## ① REC mode



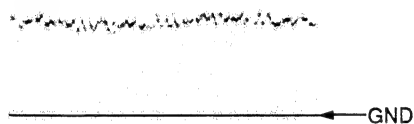
## ② REC mode



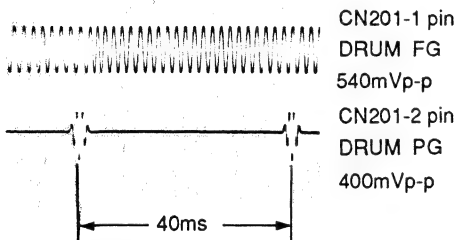
## ③ ■ TP203 CAP STOP SERVO ERROR REC mode



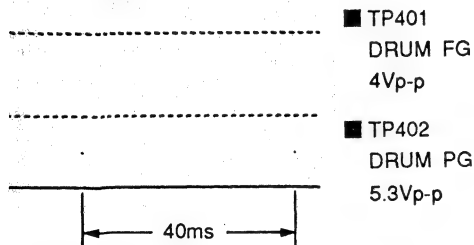
## ④ ■ TP209 CAP DRIVE 3.5Vdc REC mode



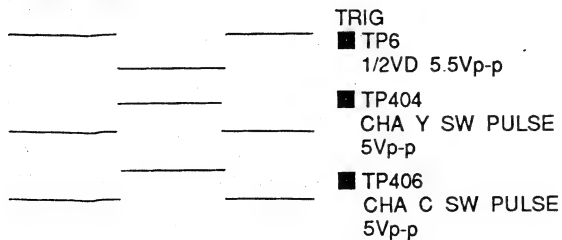
## ⑤ REC mode



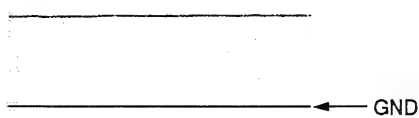
## ⑥ REC mode



## ⑦ REC mode



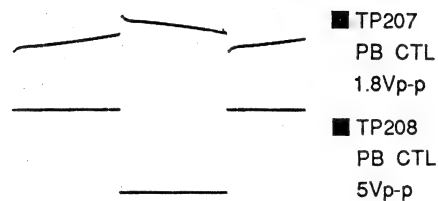
## ⑧ ■ TP403 DRUM DRIVE 6.0Vdc REC mode



## ⑨ ■ TP206 REC CTL 40mVp-p REC mode



## ⑩ PB mode



## ⑪ ■ TP4 COMP SYNC 5Vp-p REC mode



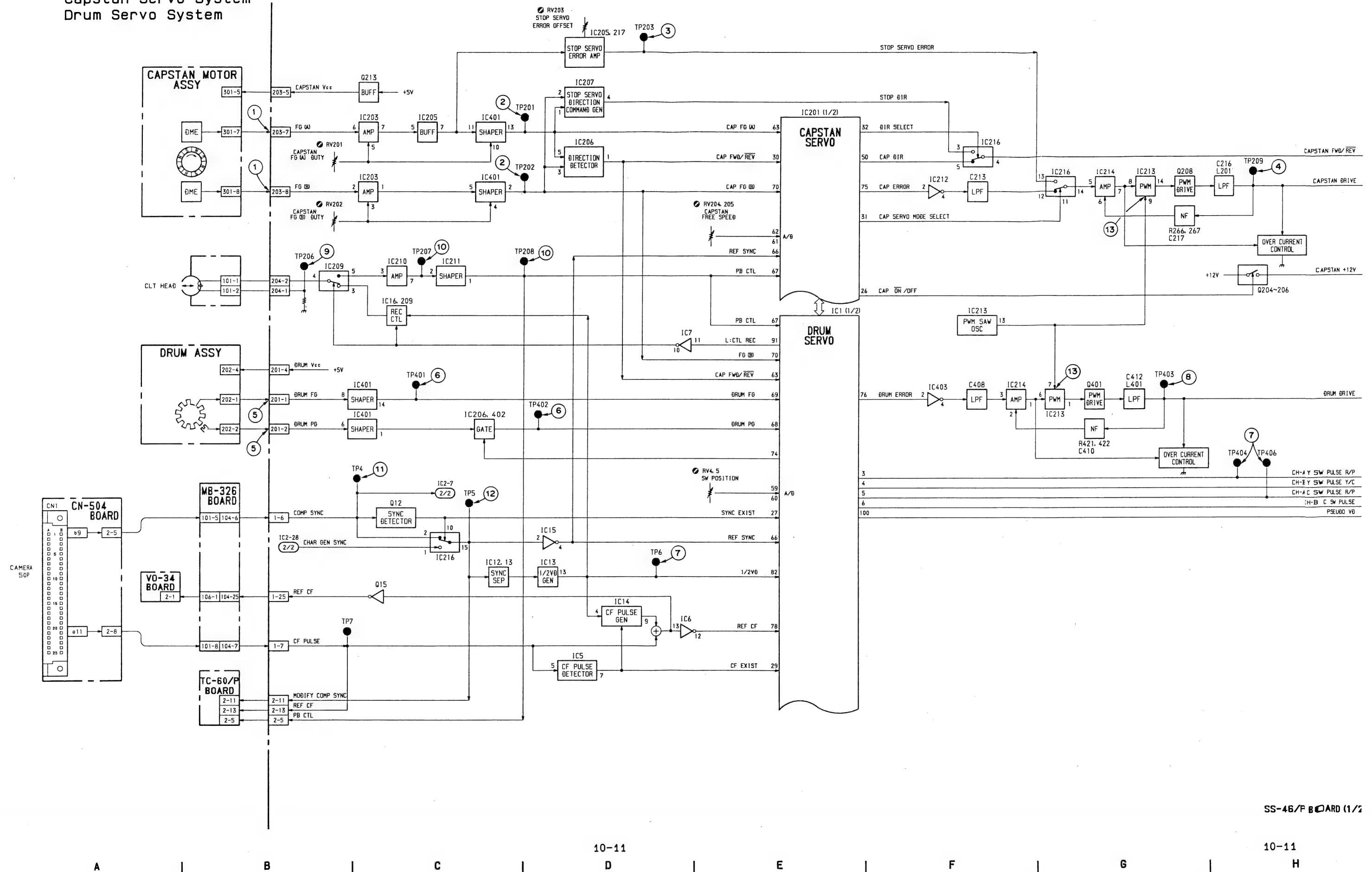
## ⑫ ■ TP5 REF SYNC 5Vp-p REC mode

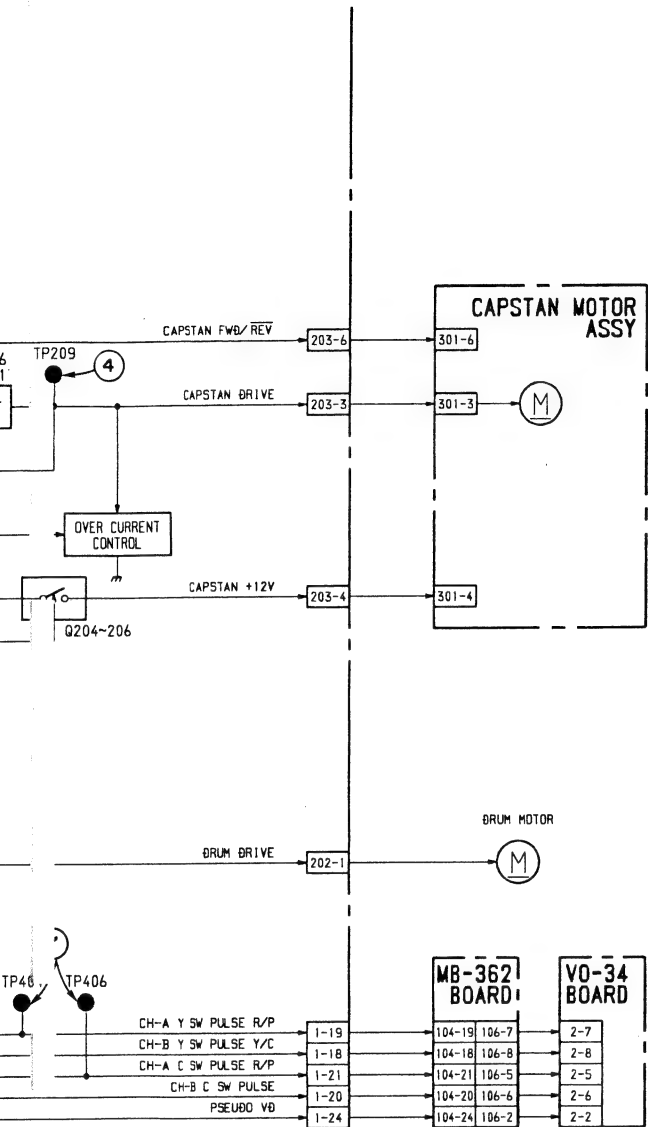


## ⑬ IC213-5,7,9 PWM SAW 1.5Vp-p



SERVO BLOCK DIAGRAM  
Capstan Servo System  
Drum Servo System





SS-46/P BOARD.....11-24 PAGE

SERVO BLOCK DIAGRAM

PVV-1 (J) : #10001-  
PVV-1 (UC) : #10001-  
PVV-1P (EK) : #10001-

SS-46/P BOARD (1/2)

10-11

H

I

J

K

10-11

L

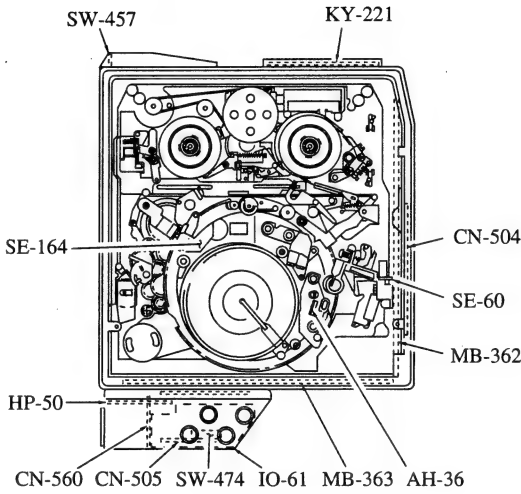
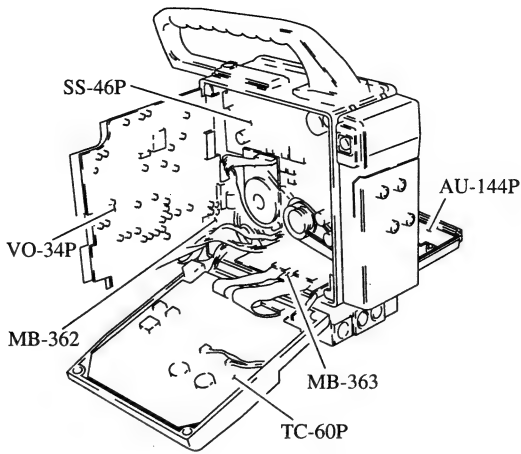
M

N

O

10-11

Location of the Printed Circuit Boards



SS-46/P BOARD (1/2)

REF NO.	ADDRESS
CN1	A-1 (B)
CN2	B-3
CN201	E-5
CN202	F-6
CN203	D-5
CN204	A-4
IC1	B-1
IC5	C-3
IC6	C-3
IC7	B-3
IC12	C-4
IC13	D-4
IC14	D-4
IC15	C-1
IC16	C-3
IC201	C-1
IC203	C-5
IC205	D-5
IC206	E-4
IC207	F-4
IC209	B-3
IC210	B-3
IC211	B-3
IC212	E-2
IC213	F-5
IC214	F-5
IC216	F-4
IC217	F-5
IC401	E-4
IC402	D-3
IC403	B-2
RV4	C-1
RV5	C-1
RV201	D-4
RV202	D-4
RV203	E-4
RV204	C-1
RV205	C-2
TP4	A-1
TP5	D-2
TP6	D-4
TP7	A-2
TP201	E-4
TP202	D-4
TP203	E-4
TP206	A-4
TP207	C-4
TP208	C-4
TP209	E-5
TP401	E-3
TP402	E-3
TP403	F-5
TP404	A-3
TP406	B-3

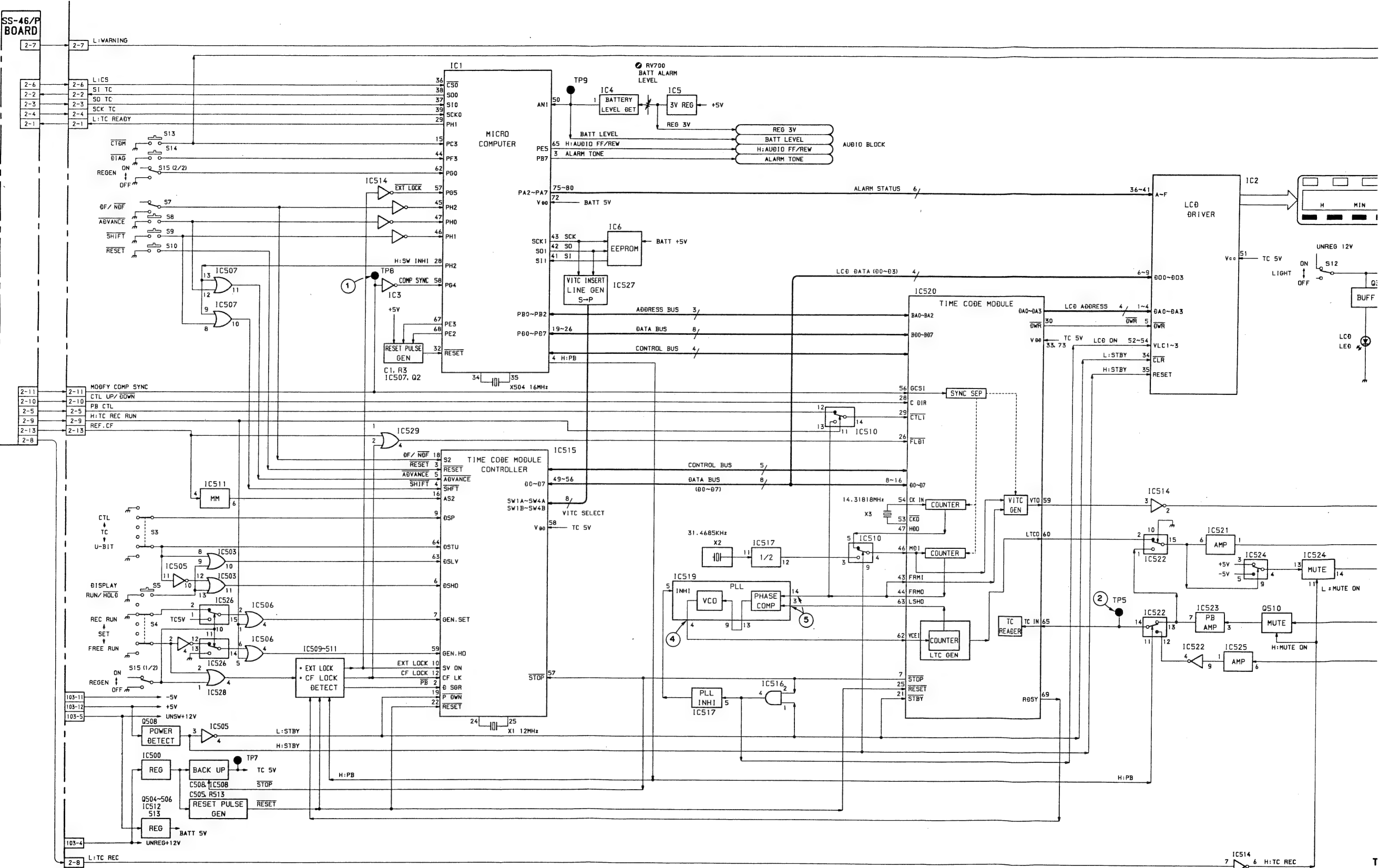
--- : ---A SIDE  
---(B) : ---B SIDE

TIME CODE BLOCK DIAGRAM  
Time Code REC/PB  
LCD Display  
Battery Level Detect

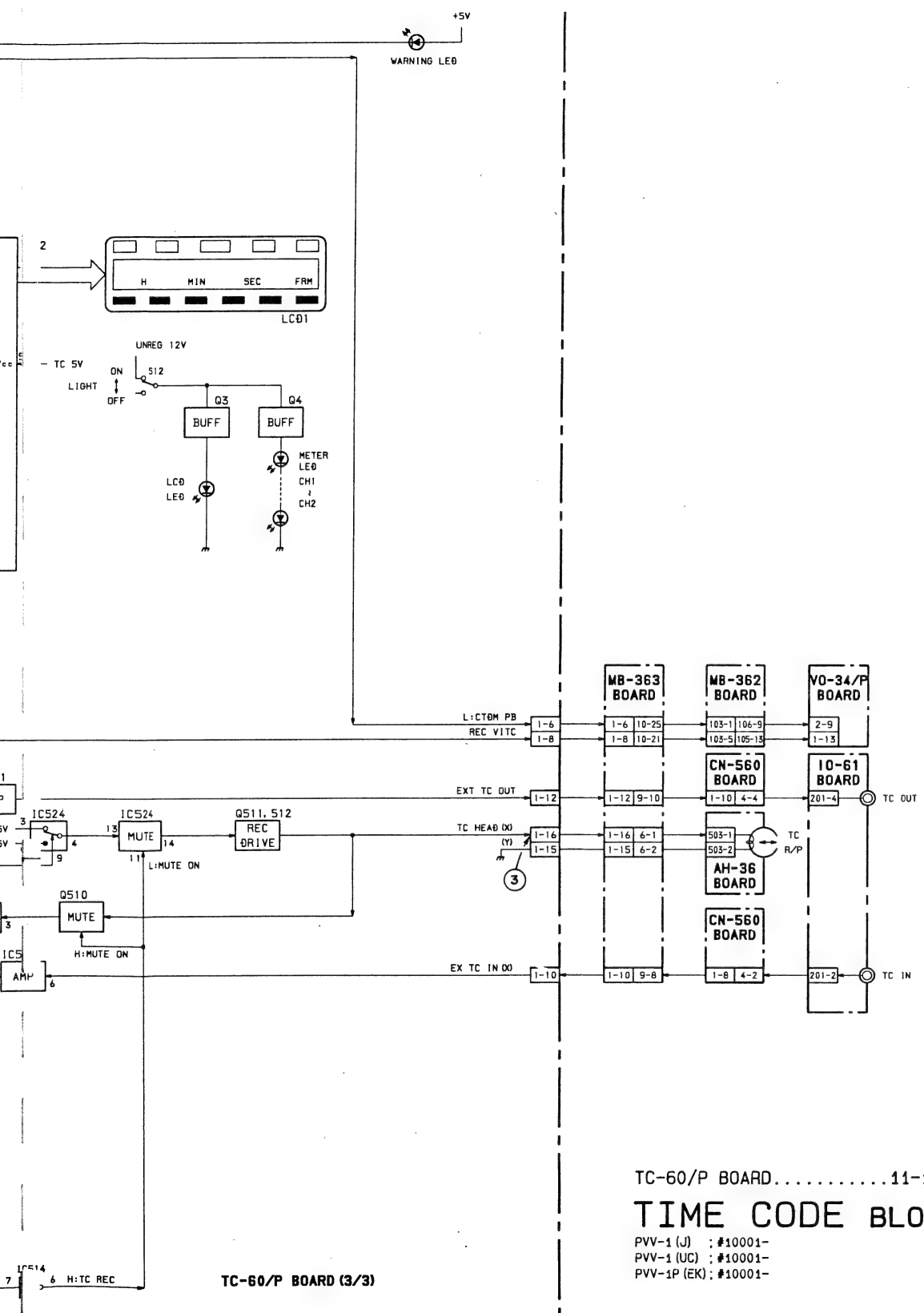
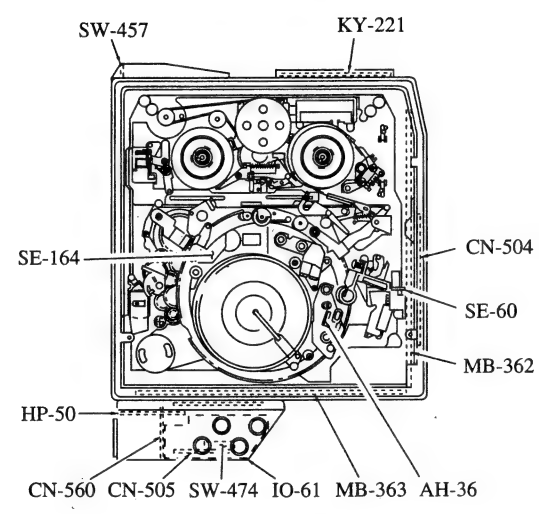
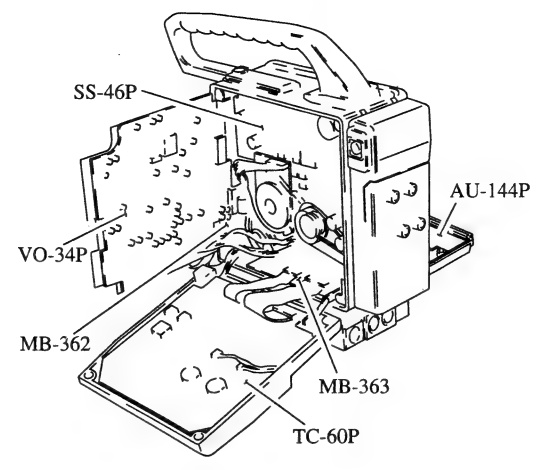
TC-60/P BOARD (3/3)

REF NO.	ADDRESS
CN1	D-7 (B)
CN2	E-7 (B)
CN103	B-7 (B)
IC1	F-4
IC2	F-1
IC3	G-5
IC4	F-3 (B)
IC5	F-3
IC6	E-4
IC500	C-5
IC503	D-4
IC505	D-4
IC506	D-5
IC507	D-6
IC508	C-5
IC509	G-6
IC510	E-5
IC511	F-6
IC512	F-7 (B)
IC513	F-7
IC514	E-6
IC515	D-1
IC516	E-4
IC517	D-4
IC519	E-2 (B)
IC520	G-2
IC521	D-5 (B)
IC522	F-6
IC523	E-7 (B)
IC524	D-5
IC525	E-7 (B)
IC526	D-6 (B)
IC527	D-1
IC528	D-7
IC529	G-6
RV700	F-3 (B)
TP5	F-6 (B)
TP7	C-4 (B)
TP8	G-5 (B)
TP9	F-3 (B)
X1	D-1
X2	D-4
X3	F-2
X504	F-4

-- : --A SIDE  
--(B): --B SIDE

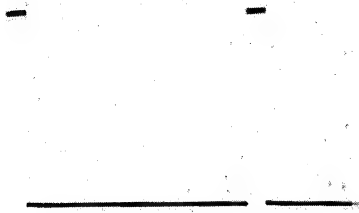


Location of the Printed Circuit Boards

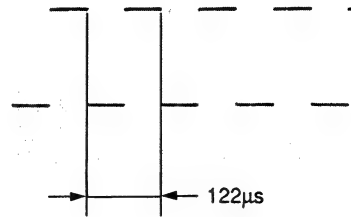


TC-60/P BOARD.....11-14 PAGE  
TIME CODE BLOCK DIAGRAM  
PVV-1 (J) ; #10001-  
PVV-1 (UC) ; #10001-  
PVV-1P (EK) ; #10001-

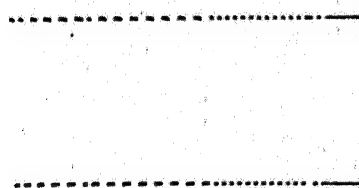
① ■ TP8 COMP SYNC 5.5Vp-p REC mode



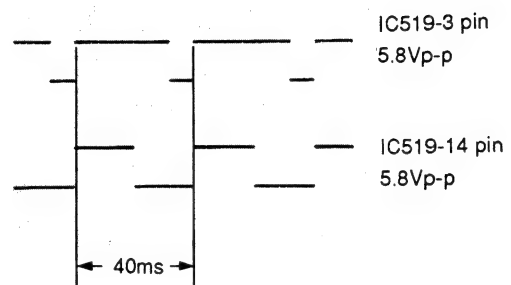
④ IC519-4 pin 6Vp-p REC mode



② ■ TP5 PB LTC 5Vp-p PB mode



⑤ REC mode



③ CN1-16 pin REC LTC 16Vp-p REC mode



SECTION 11  
SCHEMATIC DIAGRAM AND BOARD LAYOUT

Board	Function	Page
A	AU-144P Audio REC/PB.....	11-12
C	CN-504 Mic Amp. Camera 50P Connector.....	11-20
	CN-505 DC Input Power/Breaker Relay.....	11-36
	CN-560 Audio XLR Connector.....	11-22
D	DUS-489 (Refer to AU-144P Board)	
	DUS-496 (Refer to SS-46P Board)	
	DUS-505 (Refer to SS-46P Board)	
	DUS-852 (Refer to SS-46P Board)	
H	HP-50 Earphone, Phantom ON/OFF Switch.....	11-36
I	IO-61 BNC Connector.....	11-36
K	KY-211 Function Key.....	11-34
M	MB-362 Mother Board.....	11-30
	MB-363 Mother Board.....	11-32
S	SE-60 Tension Regulator Sensor.....	11-34
	SE-164 Mechanical Sensor, DEW Sensor Relay.....	11-34
	SS-46P Servo System, System Control.....	11-24
	SW-457 Backtally Switch.....	11-34
	SW-474 Breaker.....	11-36
T	TC-60P Audio Line/Meter Amp, Time Code.....	11-14
V	VO-34P Video REC/PB.....	11-2

回路図内において、REF. NO の近傍に下記記号が記載されていますが、これは生産時の部品データである。

In the schematic diagrams, the following marks are described near by reference number.  
These are parts data at factory.

CAPACITOR (C)

AL	}	ELECTROLYTIC
AS		
TA		TANTALUM
CA	}	CERAMIC
CC		
CCS		
CM		
CS		
MPS	}	MYLAR
PP		
PS		
PT		
MD		DIPPED MICA
MS		MICA

RESISTOR (R)

VARIABLE RESISTOR (RV)

RC	}	CARBON
RD		
RF		FUSE
RN	}	METAL
RS		
RW		WIERWOUND



## VO-34P BOARD

Video REC/PB

S/N 10001 through 10100

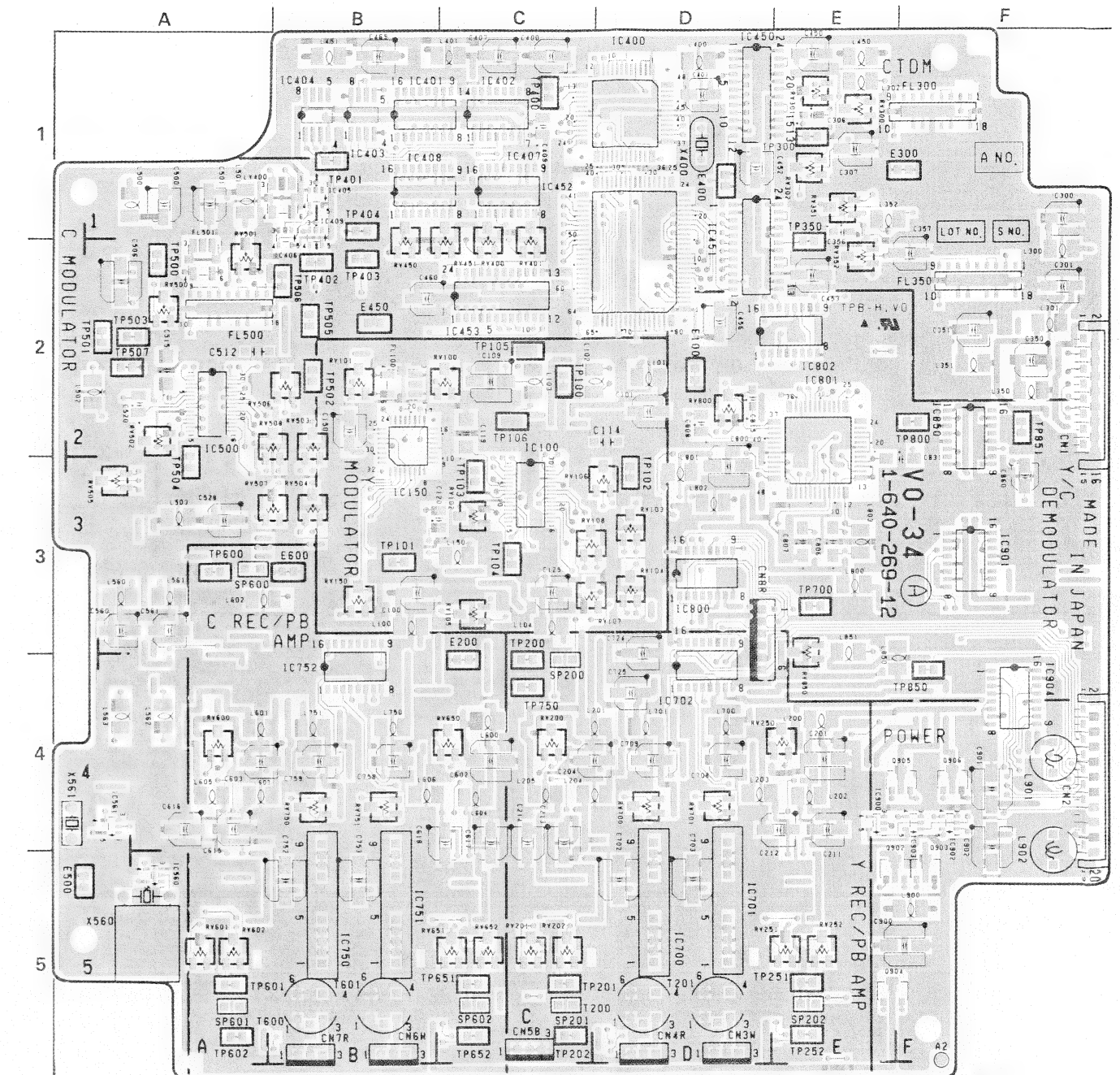
## VO-34/P (1-640-269-12)

CN1	F-2	LV400	A-1	Q506	A-3 (B)	Q809	E-2 (B)	SP202	E-5
CN2	F-4			Q507	A-3 (B)	Q810	E-2 (B)	SP600	A-3
CN3	D-5	Q100	C-2 (B)	Q508	A-3 (B)	Q811	E-2 (B)	SP601	A-5
CN4	D-5	Q101	B-2 (B)	Q509	A-2 (B)	Q812	E-2 (B)	SP602	C-5
CN5	C-5	Q102	C-2 (B)	Q510	A-3 (B)	Q813	E-2 (B)		
CN6	B-5	Q103	C-2 (B)	Q511	A-3 (B)	Q850	E-3 (B)	SS200	C-4
CN7	B-5	Q104	B-3 (B)	Q560	A-4 (B)	Q851	E-4 (B)	SS201	C-5
CN8	D-3	Q105	B-3 (B)	Q561	A-4 (B)	Q852	E-4 (B)	SS202	E-5
		Q106	D-3 (B)	Q562	A-4 (B)	Q853	F-3 (B)	SS600	A-3
D400	B-1 (B)	Q107	C-3 (B)	Q563	A-4 (B)	Q900	F-4 (B)	SS601	A-5
D800	E-2 (B)	Q150	C-3 (B)	Q600	A-3 (B)	Q901	F-4 (B)	SS602	C-5
D801	E-2 (B)	Q151	B-3 (B)	Q601	B-3 (B)	Q902	E-5		
D850	F-4 (B)	Q152	C-3 (B)	Q602	A-3 (B)	Q903	F-4	TH400	C-1 (B)
D851	F-3 (B)	Q153	B-3 (B)	Q603	A-4 (B)	Q904	E-5		
D900	F-5 (B)	Q154	C-3 (B)	Q604	A-4 (B)	Q905	F-4		
D901	F-4 (B)	Q155	C-3 (B)	Q605	A-4 (B)	Q906	F-4		
D902	F-5 (B)	Q156	C-3 (B)	Q606	A-4 (B)				
		Q200	C-4 (B)	Q607	C-4 (B)				
E100	D-2	Q201	C-4 (B)	Q608	C-4 (B)	RV100	C-2		
E200	C-4	Q202	E-4 (B)	Q609	A-4 (B)	RV101	B-2		
E300	F-1	Q203	C-4 (B)	Q610	C-4 (B)	RV102	C-3		
E400	D-1	Q204	E-4 (B)	Q611	A-4 (B)	RV103	D-3		
E450	B-2	Q205	C-4 (B)	Q612	C-4 (B)	RV104	D-3		
E500	A-5	Q206	E-4 (B)	Q613	A-4 (B)	RV105	C-3		
E600	B-3	Q207	C-4 (B)	Q614	A-5 (B)	RV106	C-3		
		Q208	E-4 (B)	Q615	C-4 (B)	RV107	D-3		
		Q209	C-4 (B)	Q616	C-5 (B)	RV108	C-3		
FL100	B-2	Q210	C-5 (B)	Q617	B-5 (B)	RV150	B-3		
FL300	F-1	Q211	E-4 (B)	Q618	A-5 (B)	RV200	C-4		
FL350	F-2	Q212	E-5 (B)	Q619	C-5 (B)	RV201	C-5		
FL500	A-2	Q213	D-5 (B)	Q620	B-5 (B)	RV202	C-5		
FL501	A-1	Q214	C-5 (B)	Q621	A-5 (B)	RV250	D-4		
		Q215	E-5 (B)	Q622	A-5 (B)	RV251	D-5		
IC100	C-2	Q216	E-5 (B)	Q623	C-5 (B)	RV252	E-5		
IC150	B-3	Q217	E-5 (B)	Q624	B-5 (B)	RV300	E-1		
IC400	D-1	Q218	E-5 (B)	Q625	B-5 (B)	RV301	E-1		
IC401	B-1	Q219	D-5 (B)	Q626	C-5 (B)	RV302	E-1		
IC402	C-1	Q220	C-5 (B)	Q627	B-5 (B)	RV351	E-1		
IC403	B-1	Q221	D-5 (B)	Q628	B-5 (B)	RV352	E-2		
IC404	B-1	Q222	E-5 (B)	Q629	B-5 (B)	RV400	C-2		
IC405	B-1	Q223	D-5 (B)	Q630	B-5 (B)	RV401	C-2		
IC406	B-2	Q224	D-5 (B)	Q700	D-4 (B)	RV450	B-2		
IC407	C-1	Q225	D-5 (B)	Q701	D-4 (B)	RV451	C-2		
IC408	B-1	Q226	D-5 (B)	Q702	D-4 (B)	RV500	A-2		
IC409	B-1	Q300	F-1 (B)	Q703	D-4 (B)	RV501	A-1		
IC450	D-1	Q301	F-1 (B)	Q704	D-4 (B)	RV502	A-2		
IC451	D-2	Q302	E-1 (B)	Q705	D-4 (B)	RV503	B-2		
IC452	C-1	Q303	E-1 (B)	Q706	D-4 (B)	RV504	B-3		
IC453	C-2	Q304	E-1 (B)	Q707	D-4 (B)	RV505	A-3		
IC500	A-2	Q305	E-1 (B)	Q751	B-4 (B)	RV506	A-2		
IC560	A-5	Q306	E-1 (B)	Q752	B-4 (B)	RV507	A-3		
IC561	A-4	Q350	F-2 (B)	Q753	B-4 (B)	RV508	B-2		
IC700	D-5	Q351	F-2 (B)	Q754	B-4 (B)	RV600	A-4		
IC701	D-5	Q352	F-2 (B)	Q755	B-4 (B)	RV601	A-5		
IC702	D-4	Q353	E-1 (B)	Q756	B-4 (B)	RV602	A-5		
IC750	B-5	Q354	E-1 (B)	Q757	B-4 (B)	RV650	C-4		
IC751	B-5	Q355	E-2 (B)	Q800	D-3 (B)	RV651	B-5		
IC752	B-4	Q400	C-1 (B)	Q801	D-3 (B)	RV652	C-5		
IC800	D-3	Q401	C-1 (B)	Q802	E-3 (B)	RV700	D-4		
IC801	E-2	Q500	A-2 (B)	Q803	E-3 (B)	RV701	D-4		
IC802	E-2	Q501	A-2 (B)	Q804	E-3 (B)	RV750	B-4		
IC850	F-2	Q502	A-1 (B)	Q805	E-2 (B)	RV751	B-4		
IC900	E-4	Q503	A-2 (B)	Q806	E-2 (B)	RV800	D-2		
IC901	F-3	Q504	A-2 (B)	Q807	D-2 (B)	RV850	E-4		
IC902	F-4	Q505	A-2 (B)	Q808	E-2 (B)	SP200	C-4		
IC903	F-4					SP201	C-5		
IC904	F-4								

## NOTE

\*\* : \*\*A SIDE  
 \*\* (B) : \*\*B SIDE

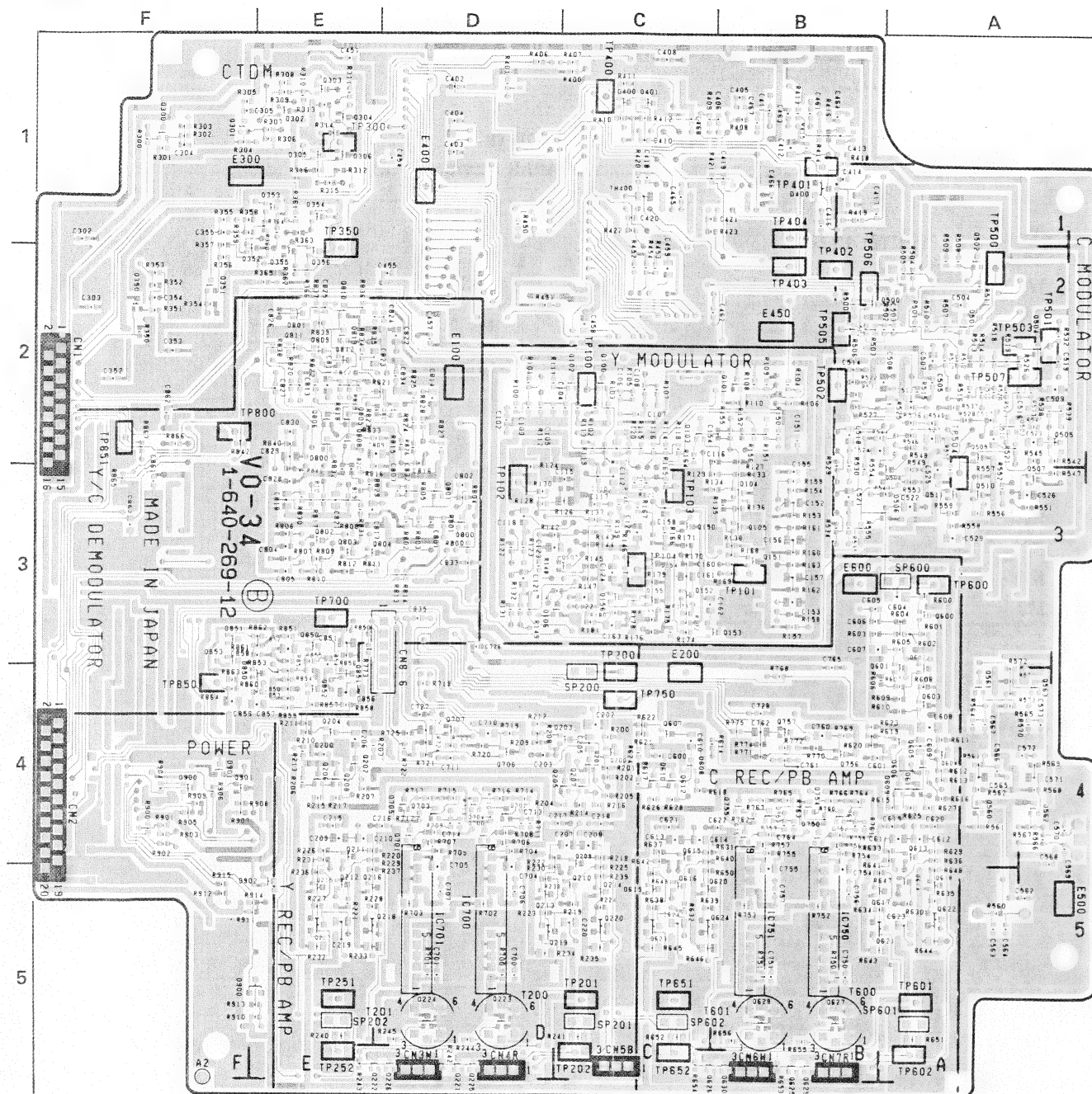
## A Side



## VO-34/P -A SIDE-

1-640-269-12  
 PVV-1- - - - - VO-34  
 PVV-1P- - - - - VO-34P

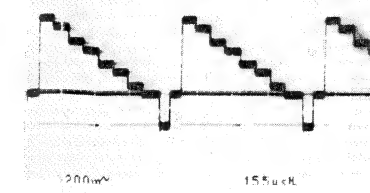
B Side



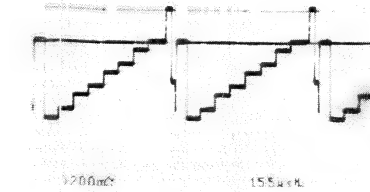
V0-34/P -B SIDE-  
1-640-269-12  
PVV-1-----V0-34  
PVV-1P-----V0-34P

# V0-34P (1/5)

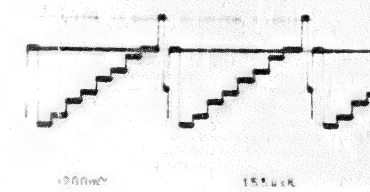
① TP100 Y 1Vp-p REC mode  
H4 4.15 U



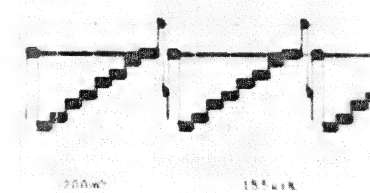
② IC100-2 pin 1Vp-p REC mode  
H4 4.15 U



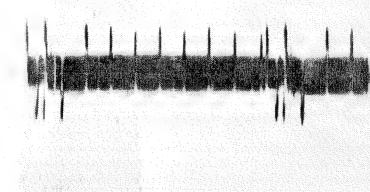
③ IC150-17 pin 1Vp-p REC mode  
H4 4.15 U



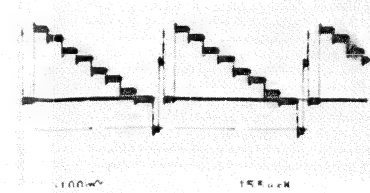
④ TP101 Y 1Vp-p REC mode  
H4 4.15 U



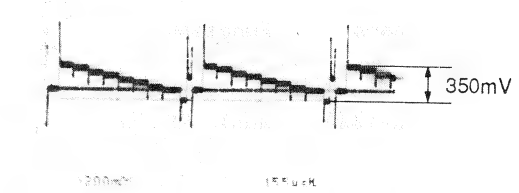
⑤ TP103 100mVp-p REC mode



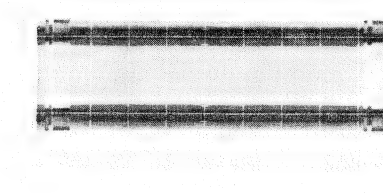
⑥ IC100-5 pin 360mVp-p REC mode  
H4 4.15 U



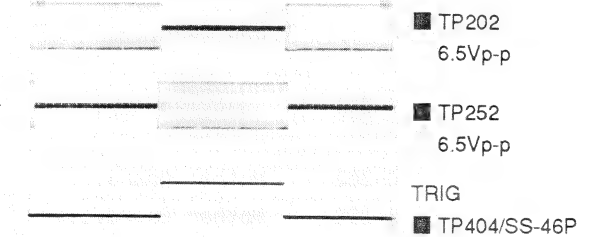
⑦ TP102 REC mode  
H4 4.15 U



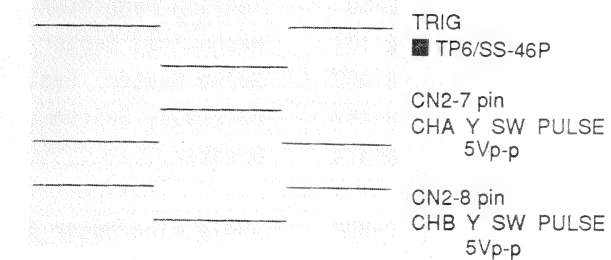
⑧ TP200 Y-FM 440mVp-p REC mode



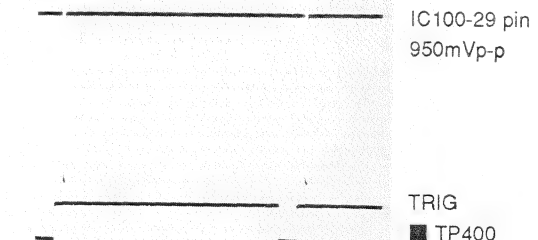
⑨ REC mode



⑩ REC mode



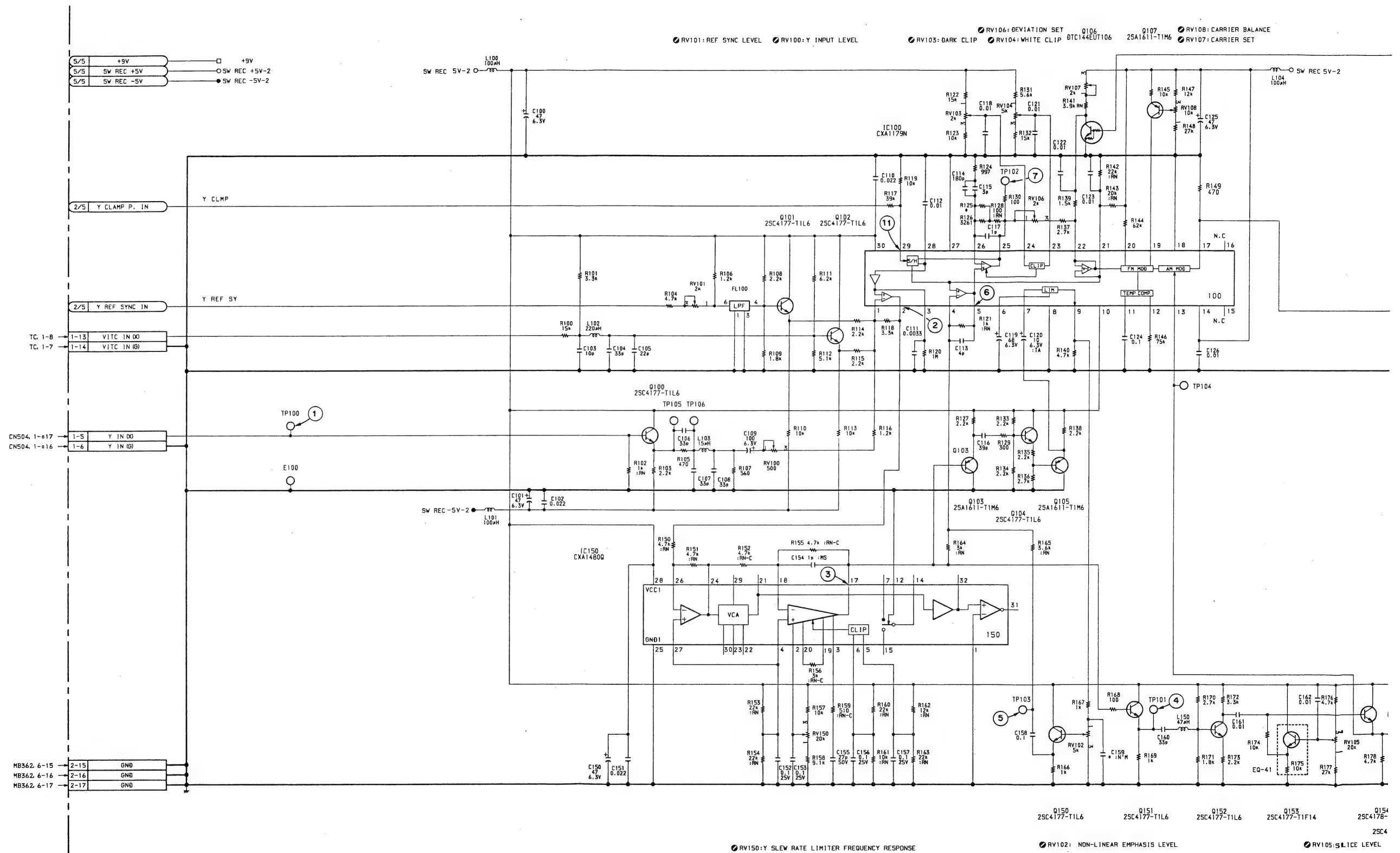
⑪ REC mode



REC mode.....Record the 100 % color bars signal.  
PB mode.....Play back the color bars signal portion  
of the alignment tape CR5-1B PS.

V0-34P BOARD (1/5)  
Y Modulator  
Y REC Amplifier

S/N 10001 through 10100



11-3 (a)

11-3 (a)

A

B

C

D

E

F

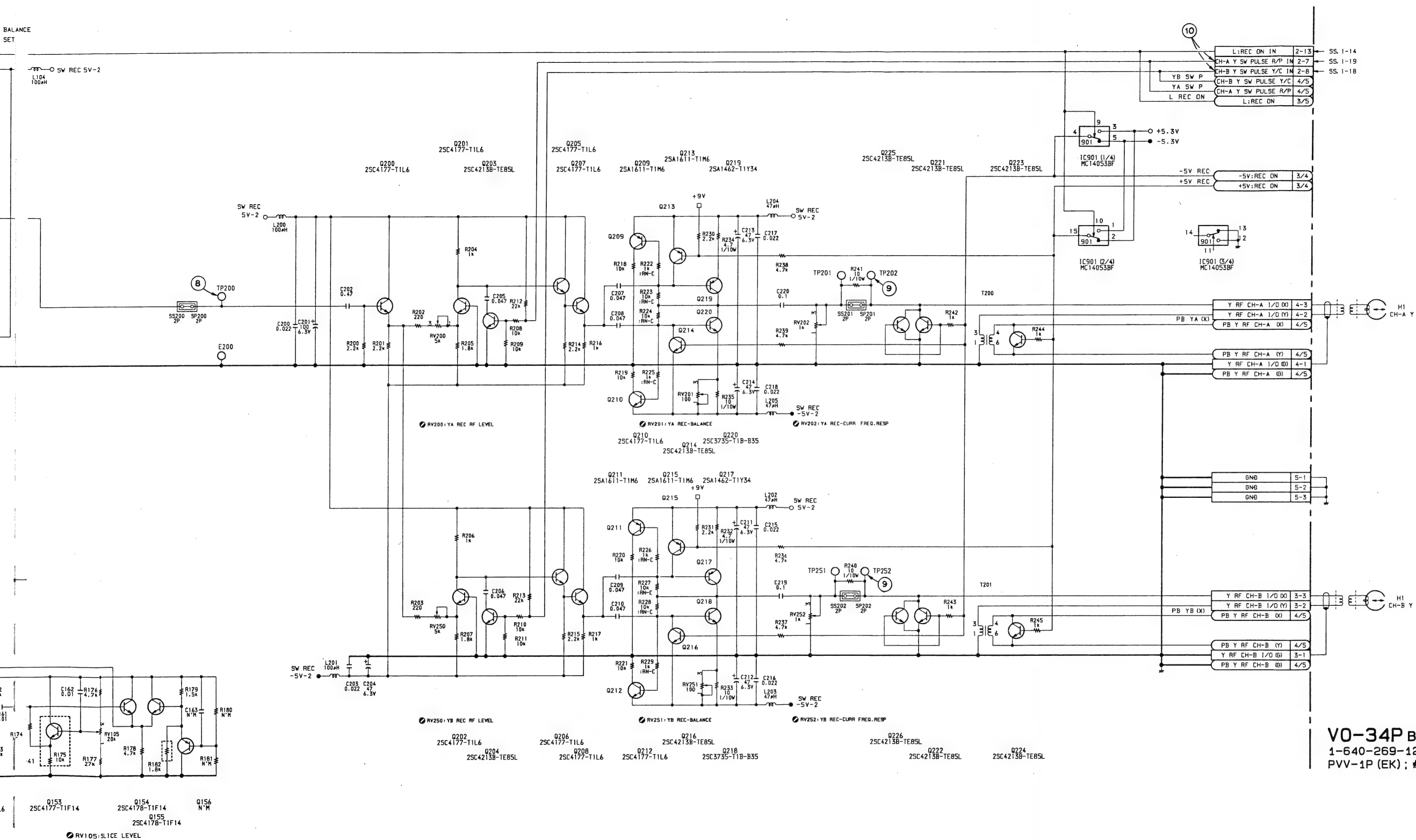
G

H



BALANCE

SET

SW REC 5V-2  
L104  
100µH

V0-34P BOARD (1/5)  
1-640-269-12  
PVV-1P (EK); #10001-10100

VO-34P BOARD  
Video REC/PB

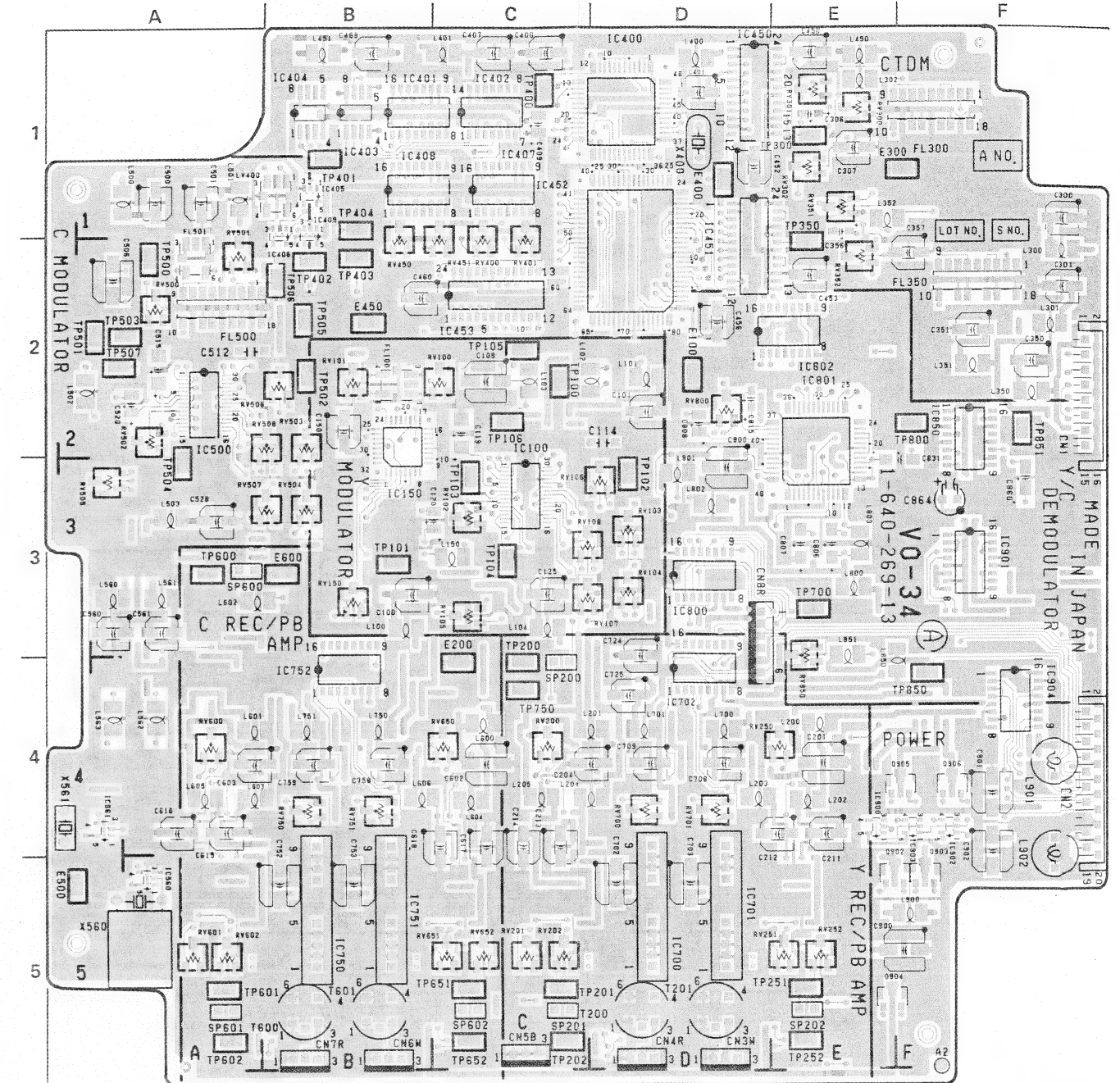
S/N 10101 through 11420

VO-34P (1-640-269-13)

CN1	F-2	LV400	A-1	Q504	A-2 (B)	Q807	D-2 (B)	SP200	C-4
CN2	F-4			Q505	A-2 (B)	Q808	E-2 (B)	SP201	C-5
CN3	D-5	Q100	C-2 (B)	Q506	B-3 (B)	Q809	E-2 (B)	SP202	E-5
CN4	D-5	Q101	B-2 (B)	Q507	A-3 (B)	Q810	E-2 (B)	SP600	A-3
CN5	C-5	Q102	C-2 (B)	Q508	A-3 (B)	Q811	E-2 (B)	SP601	A-5
CN6	B-5	Q103	C-2 (B)	Q509	A-2 (B)	Q812	E-2 (B)	SP602	C-5
CN7	B-5	Q104	B-3 (B)	Q510	A-3 (B)	Q813	E-2 (B)		
CN8	D-3	Q105	B-3 (B)	Q511	A-3 (B)	Q850	E-3 (B)	SS200	C-4
		Q106	D-3 (B)	Q560	A-4 (B)	Q851	E-4 (B)	SS201	C-5
D400	B-1 (B)	Q107	C-3 (B)	Q561	A-4 (B)	Q852	E-4 (B)	SS202	E-5
D800	E-2 (B)	Q150	C-3 (B)	Q562	A-4 (B)	Q853	F-3 (B)	SS600	A-3
D801	E-2 (B)	Q151	B-3 (B)	Q563	A-4 (B)	Q900	F-4 (B)	SS601	A-5
D850	F-4 (B)	Q152	C-3 (B)	Q600	A-3 (B)	Q901	F-4 (B)	SS602	C-5
D851	F-3 (B)	Q153	B-3 (B)	Q601	B-4 (B)	Q902	E-5		
D900	F-5 (B)	Q154	C-3 (B)	Q602	A-3 (B)	Q903	F-5	TH400	C-1 (B)
D901	F-4 (B)	Q155	C-3 (B)	Q603	A-4 (B)	Q904	E-5		
D902	F-5 (B)	Q156	C-3 (B)	Q604	A-4 (B)	Q905	F-4		
		Q200	C-4 (B)	Q605	A-4 (B)	Q906	F-4		
		Q201	C-4 (B)	Q606	A-4 (B)				
E100	D-2	Q202	E-4 (B)	Q607	C-4 (B)	RV100	C-2		
E200	C-3	Q203	C-4 (B)	Q608	C-4 (B)	RV101	B-2		
E300	E-1	Q204	E-4 (B)	Q609	A-4 (B)	RV102	C-3		
E400	D-1	Q205	C-4 (B)	Q610	C-4 (B)	RV103	D-3		
E450	B-2	Q206	E-4 (B)	Q611	A-4 (B)	RV104	D-3		
E500	A-5	Q207	C-4 (B)	Q612	C-4 (B)	RV105	C-3		
E600	B-3	Q208	E-4 (B)	Q613	A-4 (B)	RV106	C-3		
		Q209	C-4 (B)	Q614	A-5 (B)	RV107	D-3		
FL100	B-2	Q210	C-5 (B)	Q615	C-4 (B)	RV108	C-3		
FL300	F-1	Q211	E-4 (B)	Q616	C-5 (B)	RV150	B-3		
FL350	F-2	Q212	E-5 (B)	Q617	A-5 (B)	RV200	C-4		
FL500	A-2	Q213	D-5 (B)	Q618	A-5 (B)	RV201	C-5		
FL501	A-1	Q214	C-5 (B)	Q619	C-5 (B)	RV202	C-5		
		Q215	E-5 (B)	Q620	B-5 (B)	RV250	D-4		
IC100	C-2	Q216	E-5 (B)	Q621	A-5 (B)	RV251	D-5		
IC150	B-3	Q217	E-5 (B)	Q622	A-5 (B)	RV252	E-5		
IC400	D-1	Q218	D-5 (B)	Q623	C-5 (B)	RV300	E-1		
IC401	B-1	Q219	C-5 (B)	Q624	B-5 (B)	RV301	E-1		
IC402	C-1	Q220	C-5 (B)	Q625	B-5 (B)	RV302	E-1		
IC403	B-1	Q221	D-5 (B)	Q626	C-5 (B)	RV351	E-1		
IC404	B-1	Q222	E-5 (B)	Q627	B-5 (B)	RV352	E-2		
IC405	B-1	Q223	D-5 (B)	Q628	B-5 (B)	RV400	C-2		
IC406	B-2	Q224	D-5 (B)	Q629	B-5 (B)	RV401	C-2		
IC407	C-1	Q225	D-5 (B)	Q630	B-5 (B)	RV450	B-2		
IC408	B-1	Q226	D-5 (B)	Q700	D-4 (B)	RV451	C-2		
IC409	B-1	Q300	F-1 (B)	Q701	D-4 (B)	RV500	A-2		
IC450	D-1	Q301	F-1 (B)	Q702	D-4 (B)	RV501	A-1		
IC451	D-1	Q302	E-1 (B)	Q703	D-4 (B)	RV502	A-2		
IC452	C-1	Q303	E-1 (B)	Q704	D-4 (B)	RV503	B-2		
IC453	C-2	Q304	E-1 (B)	Q705	D-4 (B)	RV504	B-3		
IC500	A-2	Q305	E-1 (B)	Q706	D-4 (B)	RV505	A-3		
IC560	A-5	Q306	E-1 (B)	Q707	D-4 (B)	RV506	A-2		
IC561	A-4	Q307	E-1 (B)	Q750	B-4 (B)	RV507	A-3		
IC700	D-5	Q350	F-2 (B)	Q751	B-4 (B)	RV508	B-2		
IC701	D-5	Q351	F-2 (B)	Q752	B-4 (B)	RV600	A-4		
IC702	D-4	Q352	F-2 (B)	Q753	B-4 (B)	RV601	A-5		
IC750	B-5	Q353	E-1 (B)	Q754	B-4 (B)	RV602	A-5		
IC751	B-5	Q354	E-1 (B)	Q755	B-4 (B)	RV650	C-4		
IC752	B-4	Q355	E-2 (B)	Q756	B-4 (B)	RV651	B-5		
IC800	D-3	Q356	E-2 (B)	Q757	B-4 (B)	RV652	C-5		
IC801	E-2	Q357	F-2 (B)	Q800	D-3 (B)	RV700	D-4		
IC802	E-2	Q400	C-1 (B)	Q801	D-3 (B)	RV701	D-4		
IC850	F-2	Q401	C-1 (B)	Q802	E-3 (B)	RV750	B-4		
IC900	E-4	Q500	A-2 (B)	Q803	E-3 (B)	RV751	B-4		
IC901	F-3	Q501	A-2 (B)	Q804	E-3 (B)	RV800	D-2		
IC902	F-4	Q502	A-1 (B)	Q805	E-2 (B)	RV850	E-4		
IC903	F-4	Q503	A-2 (B)	Q806	E-2 (B)				
IC904	F-4								

NOTE  
\*\* : \*\*A SIDE  
\*\* (B) : \*\*B SIDE

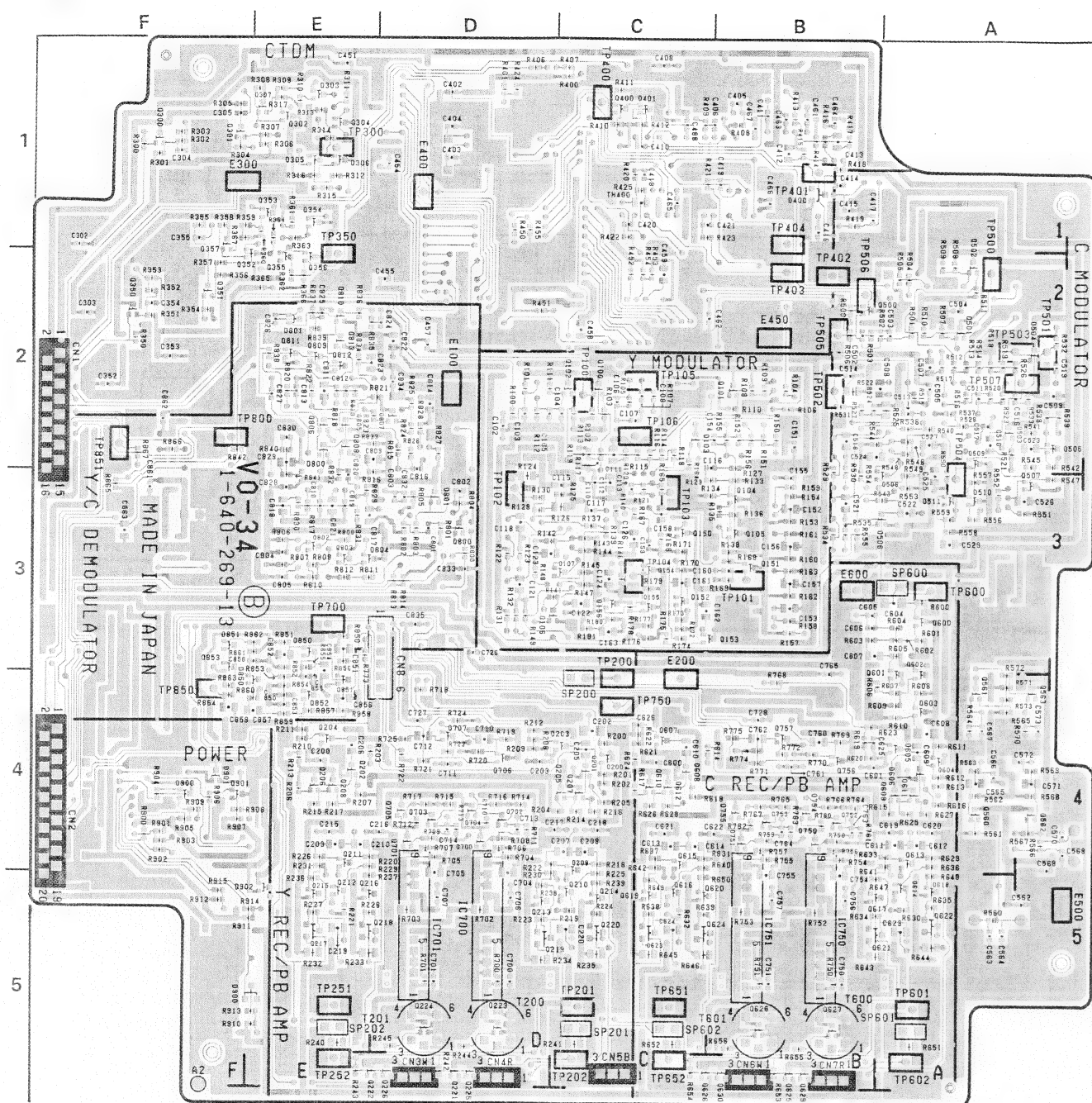
A Side



VO-34P -A SIDE-  
1-640-269-13  
PVV-1P



B Side

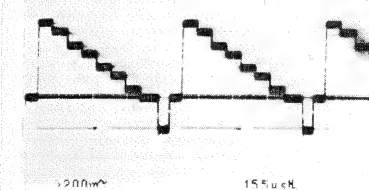


VO-34P -B SIDE-  
1-640-269-13  
PVV-1P

VO-34P (1/5)

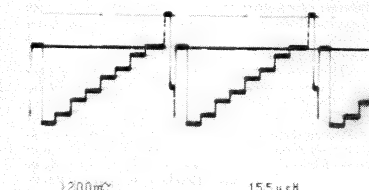
①  TP100 Y 1Vp-p REC mode

R4 415 U



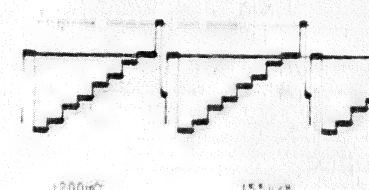
② IC100-2 pin 1Vp-p REC mode

RA4 4.15 U



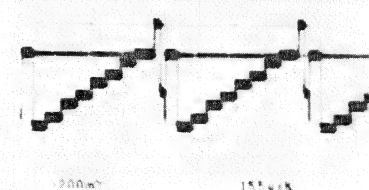
③ IC150-17 pin 1Vp-p REC mode

**\* \* \***

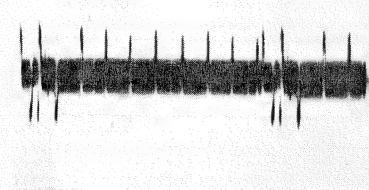


④  TP101 Y 1Vp-p REC mode

115

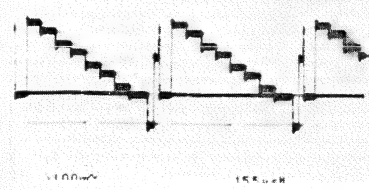


⑤ ■ TP103 100mVp-p REC mode



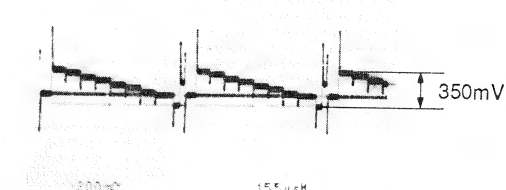
⑥ IC100-5 pin 360mVp-p REC mode

R4 415 U

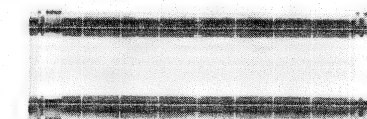


⑦  TP102 REC mode

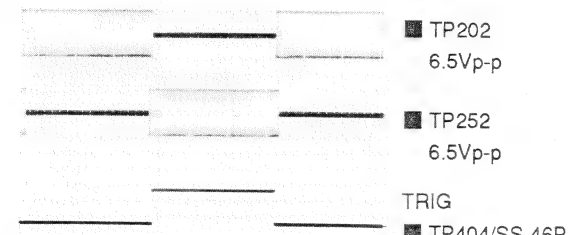
44-415-1



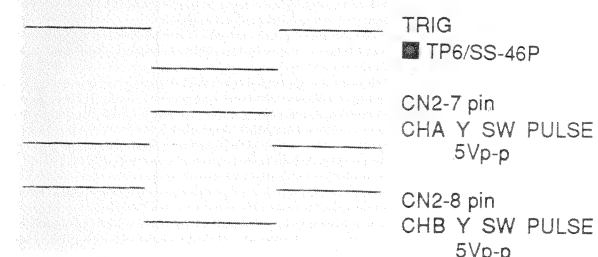
⑧ ■ TP200 Y-FM 440mVp-p REC mode



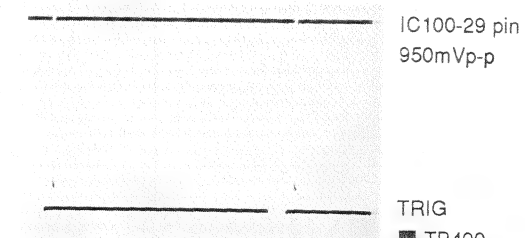
⑨ REC mode



⑩ REC mode



⑪ REC mode

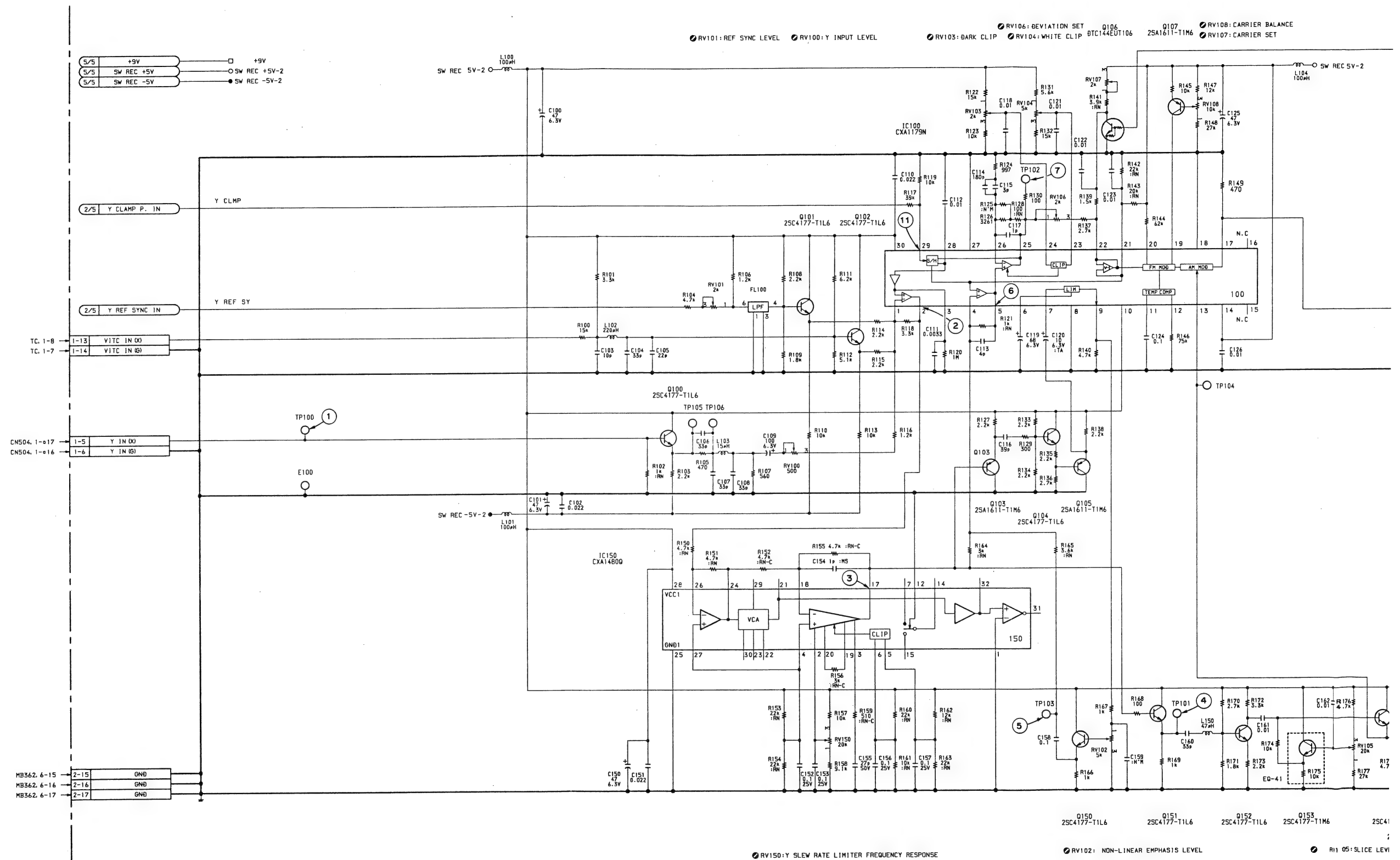


REC mode .....Record the 100 % color bars signal.  
PB mode.....Play back the color bars signal portion  
of the alignment tape CR5-1B PS.

VO-34P BOARD (1/5)

Y Modulator  
Y REC Amplifier

S/N 10101 through 11420



11-3 (b)

11-3 (b)

A

B

C

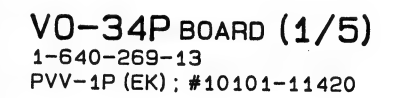
D

E

F

G

H





## VO-34P BOARD

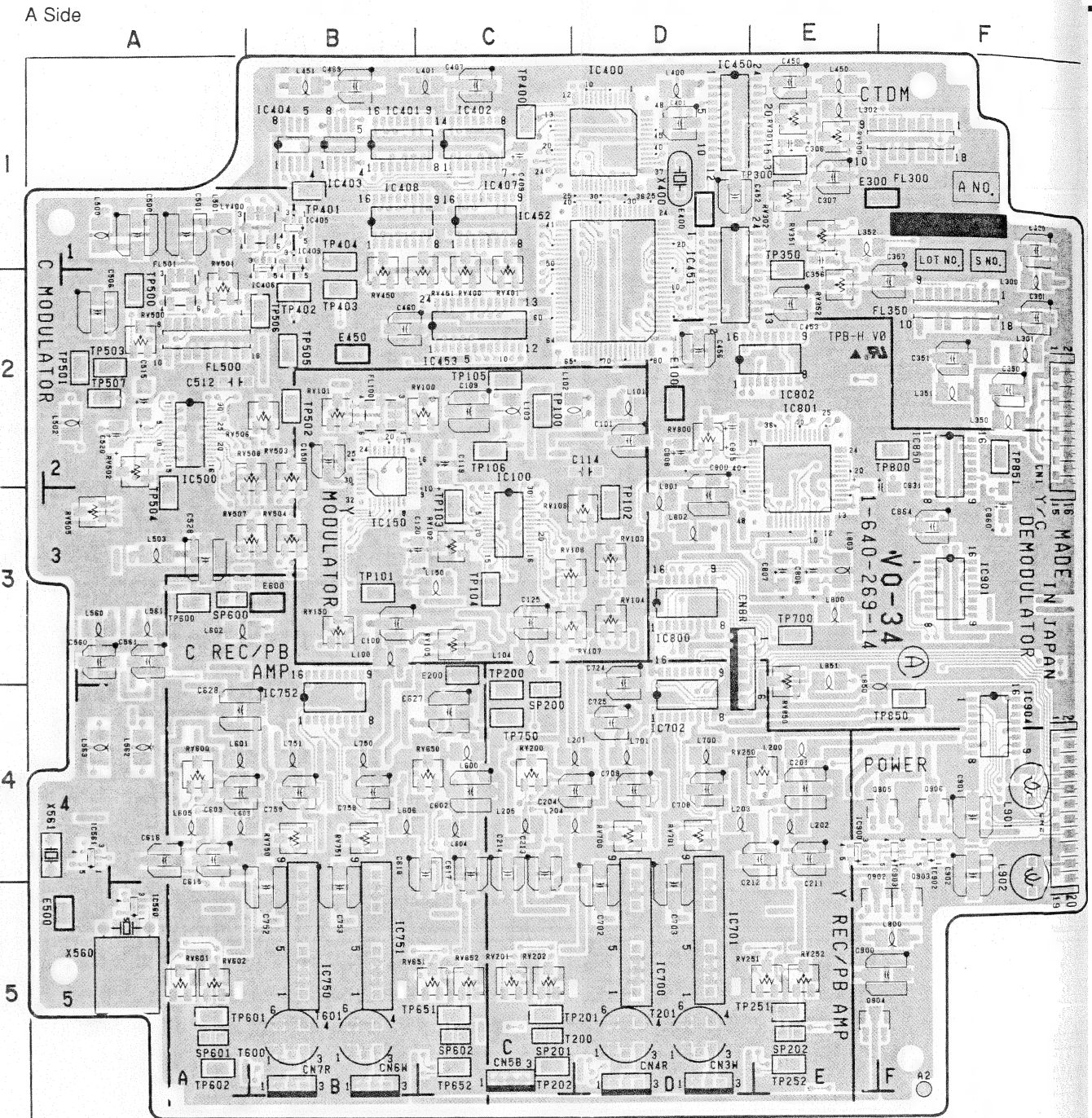
Video REC/PB

S/N 11421 through 12390

## VO-34P (1-640-269-14)

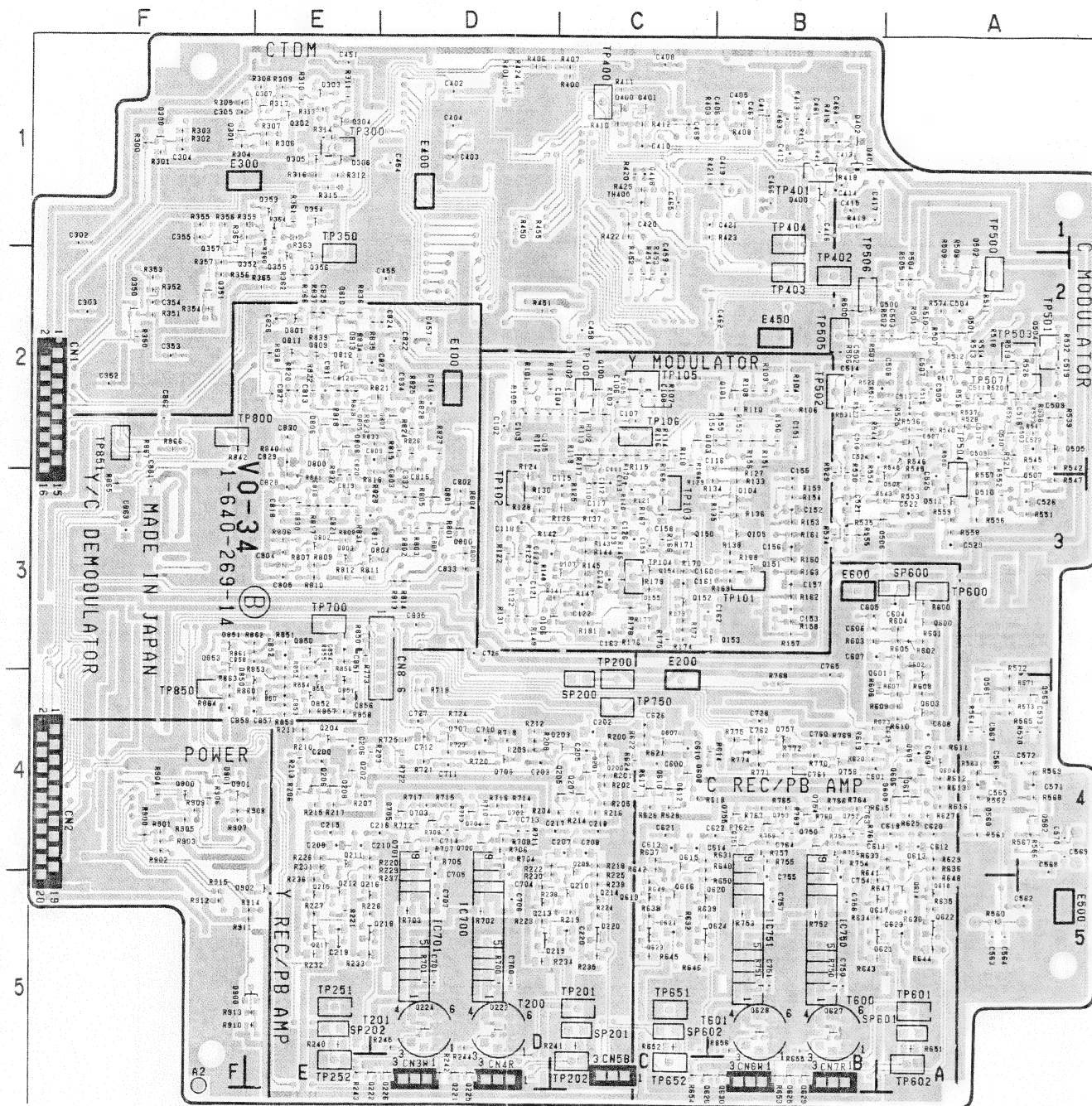
CN1	F-2	LV400	A-1	Q507	A-3 (B)	Q810	E-2 (B)	SP600	A-3
CN2	F-4			Q508	A-3 (B)	Q811	E-2 (B)	SP601	A-5
CN3	D-5	Q100	C-2 (B)	Q509	A-2 (B)	Q812	E-2 (B)	SP602	C-5
CN4	D-5	Q101	C-2 (B)	Q510	A-3 (B)	Q813	E-2 (B)		
CN5	C-5	Q102	C-2 (B)	Q511	A-3 (B)	Q850	E-3 (B)	SS200	C-4
CN6	B-5	Q103	C-2 (B)	Q560	A-4 (B)	Q851	E-4 (B)	SS201	C-5
CN7	B-5	Q104	B-3 (B)	Q561	A-4 (B)	Q852	E-4 (B)	SS202	E-5
CN8	D-3	Q105	B-3 (B)	Q562	A-4 (B)	Q853	F-3 (B)	SS600	A-3
		Q106	C-3 (B)	Q563	A-4 (B)	Q900	F-4 (B)	SS601	A-5
D400	B-1 (B)	Q107	C-3 (B)	Q600	A-3 (B)	Q901	F-4 (B)	SS602	C-5
D800	E-2 (B)	Q150	C-3 (B)	Q601	A-4 (B)	Q902	E-5		
D801	E-2 (B)	Q151	B-3 (B)	Q602	A-3 (B)	Q903	F-4	TH400	C-1 (B)
D850	F-4 (B)	Q152	C-3 (B)	Q603	A-4 (B)	Q904	F-5		
D851	F-3 (B)	Q153	B-3 (B)	Q604	A-4 (B)	Q905	F-4	TP100	C-2
D900	F-5 (B)	Q154	C-3 (B)	Q605	A-4 (B)	Q906	F-4	TP101	B-3
D901	F-4 (B)	Q155	C-3 (B)	Q606	A-4 (B)			TP102	D-3
D902	F-5 (B)	Q200	C-4 (B)	Q607	C-4 (B)	RV100	C-2	TP103	C-3
		Q201	C-4 (B)	Q608	C-4 (B)	RV101	B-2	TP104	C-3
E100	D-2	Q202	E-4 (B)	Q609	A-4 (B)	RV102	C-3	TP105	C-2
E200	C-3	Q203	C-4 (B)	Q610	C-4 (B)	RV103	D-3	TP106	C-2
E300	F-1	Q204	E-4 (B)	Q611	A-4 (B)	RV104	D-3	TP200	C-3
E400	D-1	Q205	C-4 (B)	Q612	C-4 (B)	RV105	C-3	TP201	C-5
E450	B-2	Q206	E-4 (B)	Q613	A-4 (B)	RV106	C-3	TP202	C-5
E500	A-5	Q207	C-4 (B)	Q614	A-5 (B)	RV107	D-3	TP251	E-5
E600	B-3	Q208	E-4 (B)	Q615	C-4 (B)	RV108	D-3	TP252	E-5
		Q209	C-4 (B)	Q616	C-5 (B)	RV150	B-3	TP300	E-1
FL100	B-2	Q210	C-5 (B)	Q617	B-5 (B)	RV200	C-4	TP350	E-1
FL300	F-1	Q211	E-4 (B)	Q618	A-5 (B)	RV201	C-5	TP400	C-1
FL350	F-2	Q212	E-5 (B)	Q619	C-5 (B)	RV202	C-5	TP401	B-1
FL500	A-2	Q213	D-5 (B)	Q620	B-5 (B)	RV250	D-4	TP402	B-2
FL501	A-1	Q214	C-5 (B)	Q621	B-5 (B)	RV251	D-5	TP403	B-2
		Q215	E-5 (B)	Q622	A-5 (B)	RV252	E-5	TP404	B-1
IC100	C-2	Q216	D-5 (B)	Q623	C-5 (B)	RV300	E-1	TP500	A-2
IC150	B-3	Q217	E-5 (B)	Q624	B-5 (B)	RV301	E-1	TP501	A-2
IC400	D-1	Q218	D-5 (B)	Q625	B-5 (B)	RV302	E-1	TP502	B-2
IC401	B-1	Q219	D-5 (B)	Q626	C-5 (B)	RV351	E-1	TP503	A-2
IC402	C-1	Q220	C-5 (B)	Q627	B-5 (B)	RV352	E-2	TP504	A-3
IC403	B-1	Q221	D-5 (B)	Q628	B-5 (B)	RV400	C-2	TP505	B-2
IC404	B-1	Q222	E-5 (B)	Q629	B-5 (B)	RV401	C-2	TP506	B-2
IC405	B-1	Q223	D-5 (B)	Q630	B-5 (B)	RV450	B-2	TP507	A-2
IC406	B-2	Q224	D-5 (B)	Q700	D-4 (B)	RV451	C-2	TP600	A-3
IC407	C-1	Q225	D-5 (B)	Q701	D-4 (B)	RV500	A-2	TP601	A-5
IC408	B-1	Q226	D-5 (B)	Q702	D-4 (B)	RV501	A-1	TP602	A-5
IC409	B-1	Q300	F-1 (B)	Q703	D-4 (B)	RV502	A-2	TP651	C-5
IC450	D-1	Q301	F-1 (B)	Q704	D-4 (B)	RV503	B-2	TP652	C-5
IC451	D-2	Q302	E-1 (B)	Q705	D-4 (B)	RV504	B-3	TP700	E-3
IC452	C-1	Q303	E-1 (B)	Q706	D-4 (B)	RV505	A-3	TP750	C-4
IC453	C-2	Q304	E-1 (B)	Q707	D-4 (B)	RV506	A-2	TP800	F-2
IC500	A-2	Q305	E-1 (B)	Q750	B-4 (B)	RV507	A-3	TP850	F-4
IC560	A-5	Q306	E-1 (B)	Q751	B-4 (B)	RV508	B-2	TP851	F-2
IC561	A-4	Q350	F-2 (B)	Q752	B-4 (B)	RV600	A-4		
IC700	D-5	Q351	F-2 (B)	Q753	B-4 (B)	RV601	A-5	T200	D-5
IC701	D-5	Q352	F-2 (B)	Q754	B-4 (B)	RV602	A-5	T201	D-5
IC702	D-4	Q353	E-1 (B)	Q755	B-4 (B)	RV650	C-4	T600	B-5
IC750	B-5	Q354	E-1 (B)	Q756	B-4 (B)	RV651	B-5	T601	B-5
IC751	B-5	Q355	E-2 (B)	Q757	B-4 (B)	RV652	C-5		
IC752	B-4	Q356	E-2 (B)	Q800	D-3 (B)	RV700	D-4	X400	D-1
IC800	D-3	Q400	C-1 (B)	Q801	D-3 (B)	RV701	D-4	X560	A-5
IC801	E-2	Q401	C-1 (B)	Q802	E-3 (B)	RV750	B-4	X561	A-4
IC802	E-2	Q500	A-2 (B)	Q803	E-3 (B)	RV751	B-4		
IC850	F-2	Q501	A-2 (B)	Q804	D-3 (B)	RV800	D-2		
IC900	E-4	Q502	A-1 (B)	Q805	E-2 (B)	RV850	E-4		
IC901	F-3	Q503	A-2 (B)	Q806	E-2 (B)			SP200	C-4
IC902	F-4	Q504	A-2 (B)	Q807	D-2 (B)			SP201	C-5
IC903	F-4	Q505	A-2 (B)	Q808	E-2 (B)			SP202	E-5
IC904	F-4	Q506	A-3 (B)	Q809	E-2 (B)				

NOTE  
 \* : A SIDE  
 \*\* (B) : B SIDE



VO-34P -A SIDE-  
 1-640-269-14  
 PVV-1P

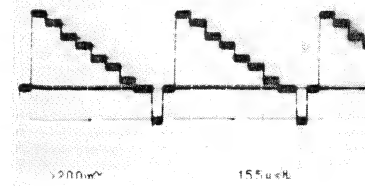
B Side



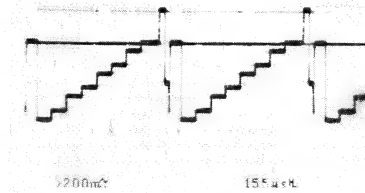
**VO-34P** -B SIDE-  
1-640-269-14  
PVV-1P

**VO-34P (1/5)**

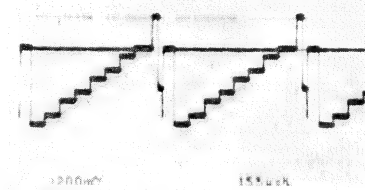
TP100 Y 1Vp-p REC mode  
H+ 4.15 U



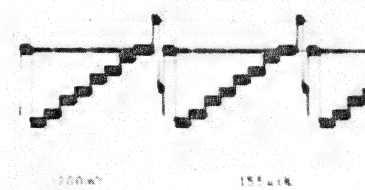
IC100-2 pin 1Vp-p REC mode  
H+ 4.15 U



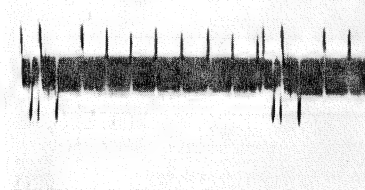
IC150-17 pin 1Vp-p REC mode  
H+ 4.15 U



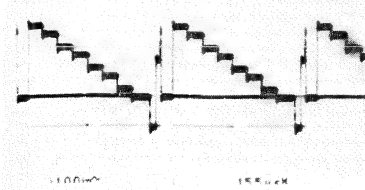
TP101 Y 1Vp-p REC mode  
H+ 4.15 U



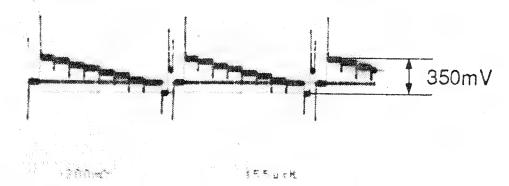
TP103 100mVp-p REC mode



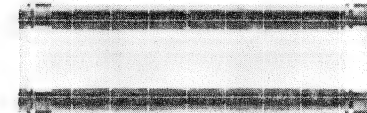
IC100-5 pin 360mVp-p REC mode  
H+ 4.15 U



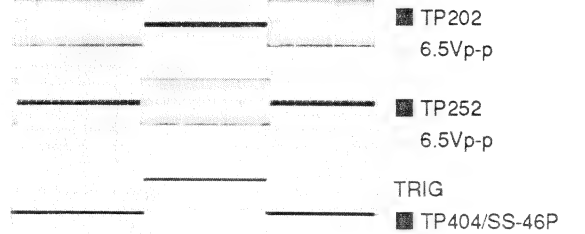
TP102 REC mode  
H+ 4.15 U



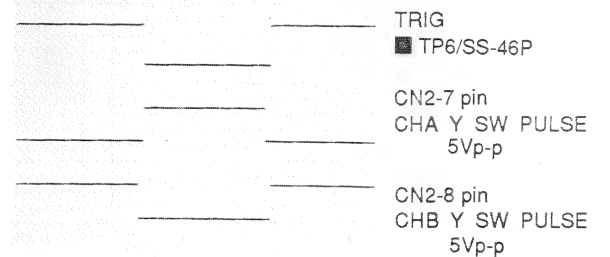
TP200 Y-FM 440mVp-p REC mode



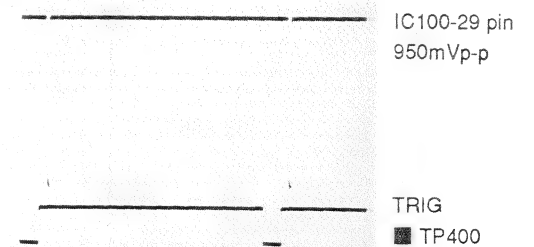
REC mode



REC mode



REC mode



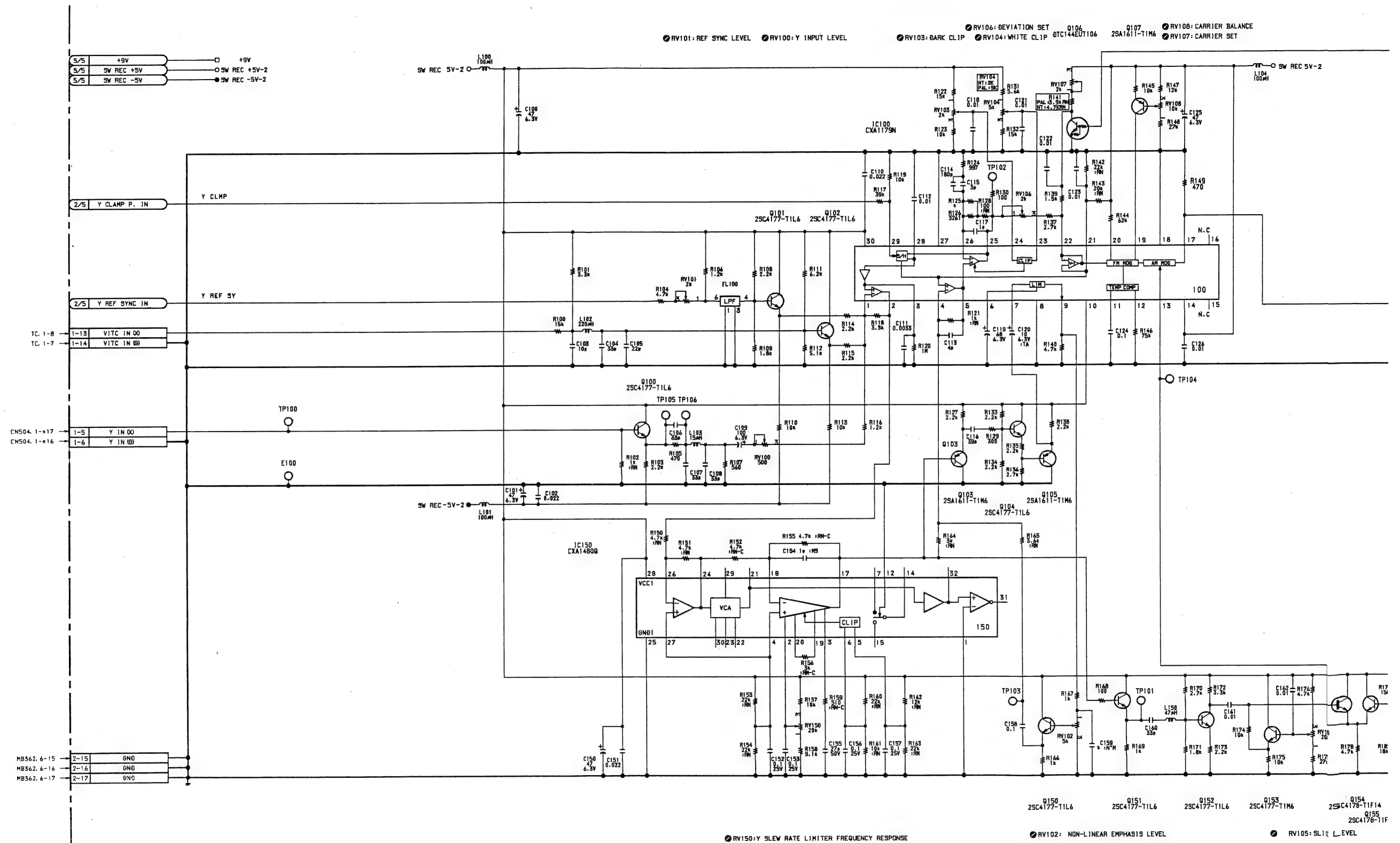
REC mode.....Record the 100 % color bars signal.  
PB mode.....Play back the color bars signal portion  
of the alignment tape CR5-1B PS.

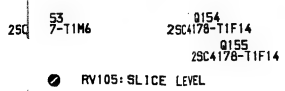


## V0-34P BOARD (1/5)

Y Modulator  
Y REC Amplifier

S/N 11421 through 12390





## VO-34P BOARD

Video REC/PB

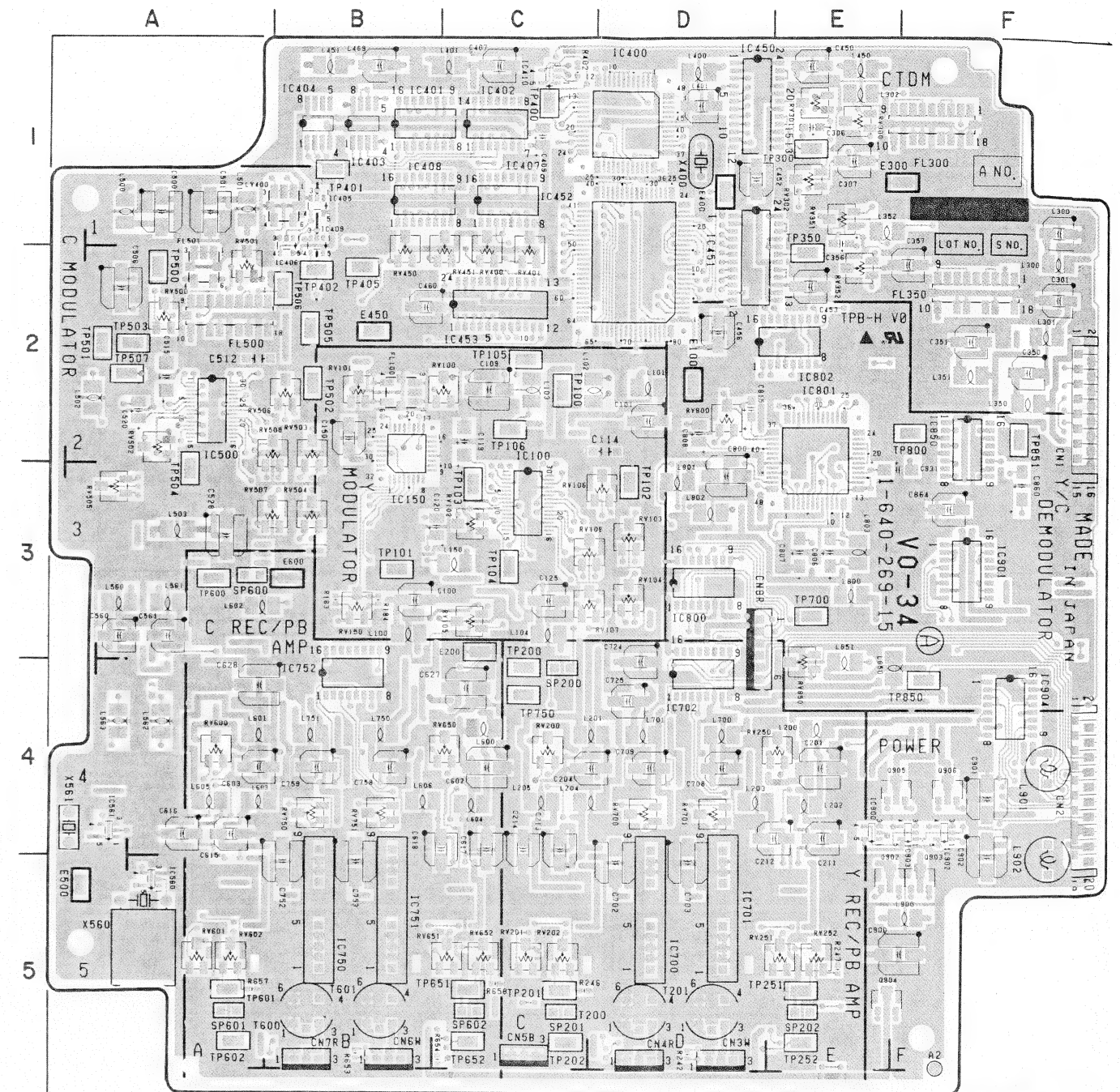
S/N 12391 and higher

## VO-34P (1-640-269-15)

CN1	F-2	LV400	A-1	Q507	A-3 (B)	Q810	E-2 (B)	SP600	A-3
CN2	F-4			Q508	A-3 (B)	Q811	E-2 (B)	SP601	A-5
CN3	D-5	Q100	C-2 (B)	Q509	A-2 (B)	Q812	E-2 (B)	SP602	C-5
CN4	D-5	Q101	B-2 (B)	Q510	A-3 (B)	Q813	E-2 (B)		
CN5	C-5	Q102	C-2 (B)	Q511	A-3 (B)	Q850	E-3 (B)	SS200	C-2
CN6	B-5	Q103	C-2 (B)	Q560	A-4 (B)	Q851	E-4 (B)	SS201	C-5
CN7	B-5	Q104	B-3 (B)	Q561	A-4 (B)	Q852	E-4 (B)	SS202	E-5
CN8	D-3	Q105	B-3 (B)	Q562	A-4 (B)	Q853	F-3 (B)	SS600	A-3
		Q106	D-3 (B)	Q563	A-4 (B)	Q900	F-4 (B)	SS601	A-5
		Q107	C-3 (B)	Q600	A-3 (B)	Q901	F-4 (B)	SS602	C-5
D400	B-1 (B)	Q150	C-3 (B)	Q601	A-4 (B)	Q902	E-5		
D800	E-2 (B)	Q151	B-3 (B)	Q602	A-3 (B)	Q903	F-4	TH400	C-1 (B)
D801	E-2 (B)	Q152	C-3 (B)	Q603	A-4 (B)	Q904	F-5		
D850	F-4 (B)	Q153	B-3 (B)	Q604	A-4 (B)	Q905	F-4	TP100	C-2
D851	F-3 (B)	Q154	C-3 (B)	Q605	A-4 (B)	Q906	F-4	TP101	B-3
D900	F-5 (B)	Q155	C-3 (B)	Q606	A-4 (B)			TP102	D-3
D901	F-4 (B)	Q200	C-4 (B)	Q607	C-4 (B)	RV100	C-2	TP103	C-3
D902	F-5 (B)	Q201	C-4 (B)	Q608	C-4 (B)	RV101	B-2	TP104	C-3
		Q202	E-4 (B)	Q609	A-4 (B)	RV102	C-3	TP105	C-2
E100	D-2	Q203	C-4 (B)	Q610	C-4 (B)	RV103	D-3	TP106	C-2
E200	C-3	Q204	E-4 (B)	Q611	A-4 (B)	RV104	D-3	TP200	C-3
E300	F-1	Q205	C-4 (B)	Q612	C-4 (B)	RV105	C-3	TP201	C-5
E400	D-1	Q206	E-4 (B)	Q613	A-4 (B)	RV106	C-3	TP202	C-5
E450	B-2	Q207	C-4 (B)	Q614	A-5 (B)	RV107	D-3	TP251	E-5
E500	A-5	Q208	E-4 (B)	Q615	C-4 (B)	RV108	D-3	TP252	E-5
E600	B-3	Q209	C-4 (B)	Q616	C-5 (B)	RV150	B-3	TP300	E-1
		Q210	C-5 (B)	Q617	B-5 (B)	RV200	C-4	TP350	E-1
FL100	B-2	Q211	E-4 (B)	Q618	A-5 (B)	RV201	C-5	TP400	C-1
FL300	F-1	Q212	E-5 (B)	Q619	C-5 (B)	RV202	C-5	TP401	B-1
FL350	F-2	Q213	D-5 (B)	Q620	B-5 (B)	RV250	D-4	TP402	B-2
FL500	A-2	Q214	C-5 (B)	Q621	B-5 (B)	RV251	D-5	TP403	B-2
FL501	A-1	Q215	E-5 (B)	Q622	A-5 (B)	RV252	E-5	TP404	B-1
		Q216	D-5 (B)	Q623	C-5 (B)	RV300	E-1	TP500	A-2
IC100	C-2	Q217	E-5 (B)	Q624	B-5 (B)	RV301	E-1	TP501	A-2
IC150	B-3	Q218	D-5 (B)	Q625	B-5 (B)	RV302	E-1	TP502	B-2
IC400	D-1	Q219	D-5 (B)	Q626	C-5 (B)	RV351	E-1	TP503	A-2
IC401	B-1	Q220	C-5 (B)	Q627	B-5 (B)	RV352	E-2	TP504	A-3
IC402	C-1	Q221	D-5 (B)	Q628	B-5 (B)	RV400	C-2	TP505	B-2
IC403	B-1	Q222	E-5 (B)	Q629	B-5 (B)	RV401	C-2	TP506	B-2
IC404	B-1	Q223	D-5 (B)	Q630	B-5 (B)	RV450	B-2	TP507	A-2
IC405	B-1	Q224	D-5 (B)	Q700	D-4 (B)	RV451	C-2	TP600	A-3
IC406	B-2	Q225	D-5 (B)	Q701	D-4 (B)	RV500	A-2	TP601	A-5
IC407	C-1	Q226	D-5 (B)	Q702	D-4 (B)	RV501	A-1	TP602	A-5
IC408	B-1	Q300	F-1 (B)	Q703	D-4 (B)	RV502	A-2	TP651	C-5
IC409	B-1	Q301	F-1 (B)	Q704	D-4 (B)	RV503	B-2	TP652	C-5
IC450	D-1	Q302	E-1 (B)	Q705	D-4 (B)	RV504	B-3	TP700	E-3
IC451	D-2	Q303	E-1 (B)	Q706	D-4 (B)	RV505	A-3	TP750	C-4
IC452	C-1	Q304	E-1 (B)	Q707	D-4 (B)	RV506	A-2	TP800	F-2
IC453	C-2	Q305	E-1 (B)	Q750	B-4 (B)	RV507	A-3	TP850	F-4
IC500	A-2	Q306	E-1 (B)	Q751	B-4 (B)	RV508	B-2	TP851	F-2
IC560	A-5	Q350	F-2 (B)	Q752	B-4 (B)	RV600	A-4		
IC561	A-4	Q351	F-2 (B)	Q753	B-4 (B)	RV601	A-5	T200	D-5
IC700	D-5	Q352	F-2 (B)	Q754	B-4 (B)	RV602	A-5	T201	D-5
IC701	D-5	Q353	E-1 (B)	Q755	B-4 (B)	RV650	C-4	T600	B-5
IC702	D-4	Q354	E-1 (B)	Q756	B-4 (B)	RV651	B-5	T601	B-5
IC750	B-5	Q355	E-2 (B)	Q757	B-4 (B)	RV652	C-5		
IC751	B-5	Q356	E-2 (B)	Q800	D-3 (B)	RV700	D-4	X400	D-1
IC752	B-4	Q400	C-1 (B)	Q801	D-3 (B)	RV701	D-4	X560	A-5
IC800	D-3	Q401	C-1 (B)	Q802	E-3 (B)	RV750	B-4	X561	A-4
IC801	E-2	Q500	A-2 (B)	Q803	E-3 (B)	RV751	B-4		
IC802	E-2	Q501	A-2 (B)	Q804	D-3 (B)	RV800	D-2		
IC850	F-2	Q502	A-1 (B)	Q805	E-2 (B)	RV850	E-4		
IC900	E-4	Q503	A-2 (B)	Q806	E-2 (B)				
IC901	F-3	Q504	A-2 (B)	Q807	D-2 (B)	SP200	C-4		
IC902	F-4	Q505	A-2 (B)	Q808	E-2 (B)	SP201	C-5		
IC903	F-4	Q506	A-3 (B)	Q809	E-2 (B)	SP202	E-5		

NOTE  
 \*\* : \*\* A SIDE  
 \*\* (B) : \*\* B SIDE

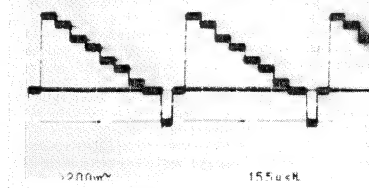
A Side



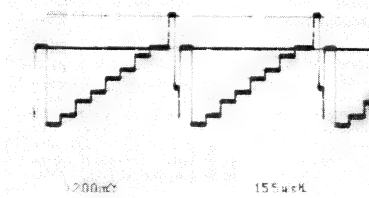


VO-34P (1/5)

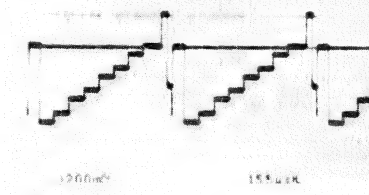
TP100 Y 1Vp-p REC mode  
H+ 4.15 U



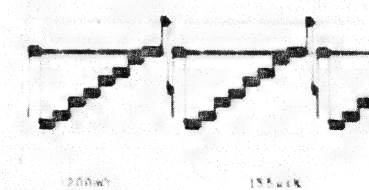
IC100-2 pin 1Vp-p REC mode  
H+ 4.15 U



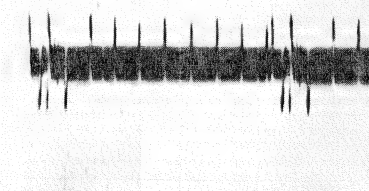
IC150-17 pin 1Vp-p REC mode  
H+ 4.15 U



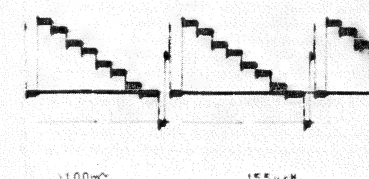
TP101 Y 1Vp-p REC mode  
H+ 4.15 U



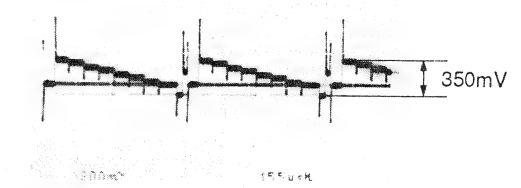
TP103 100mVp-p REC mode



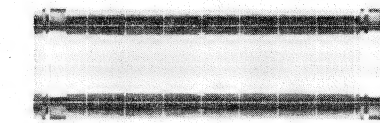
IC100-5 pin 360mVp-p REC mode  
H+ 4.15 U



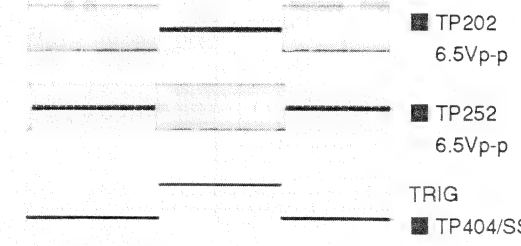
TP102 REC mode  
H+ 4.15 U



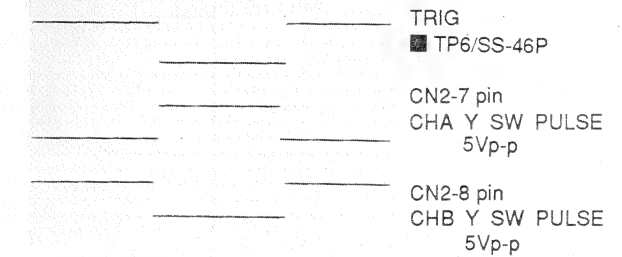
TP200 Y-FM 440mVp-p REC mode



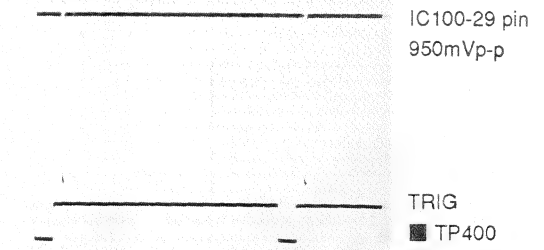
REC mode



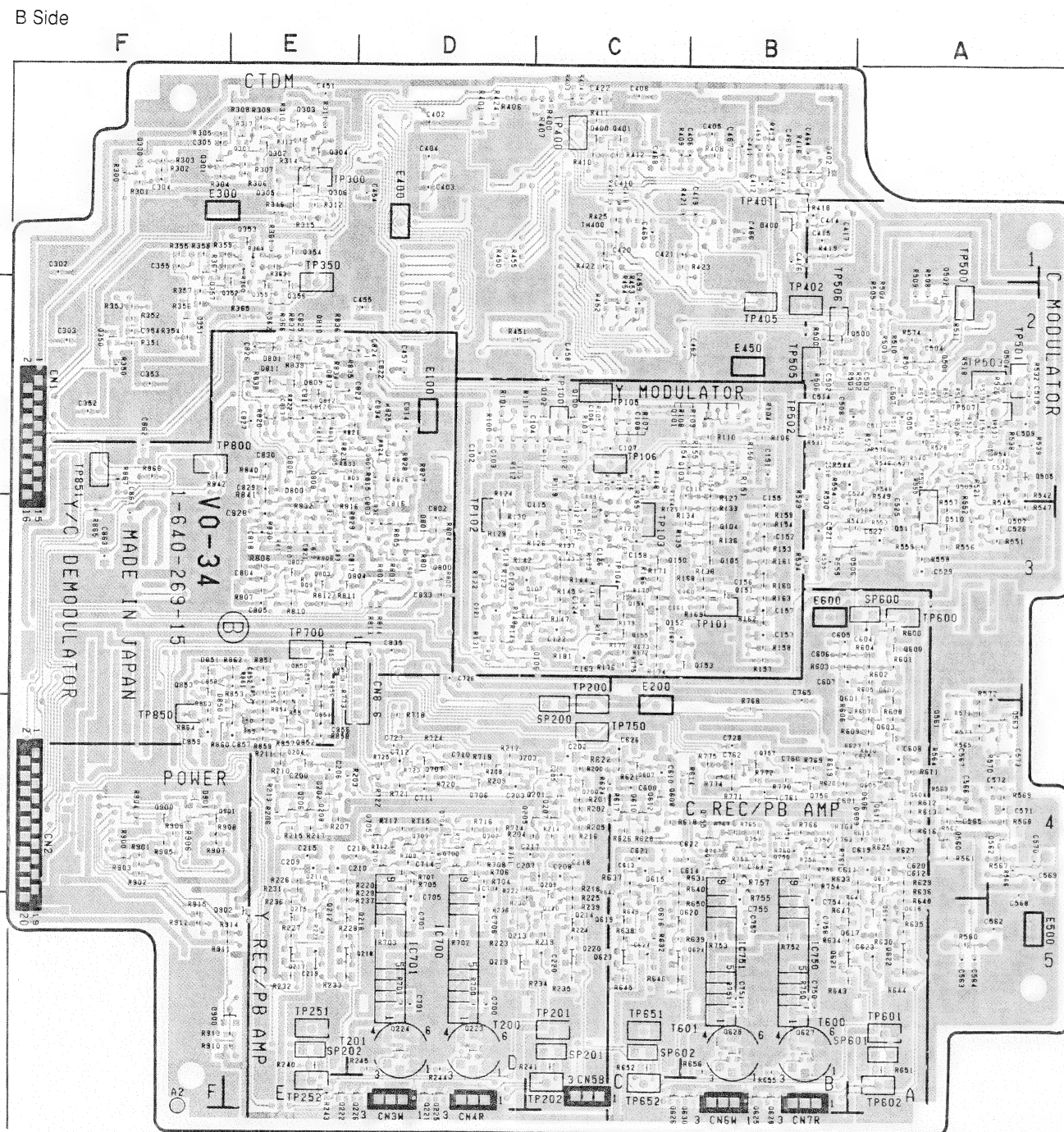
REC mode



REC mode



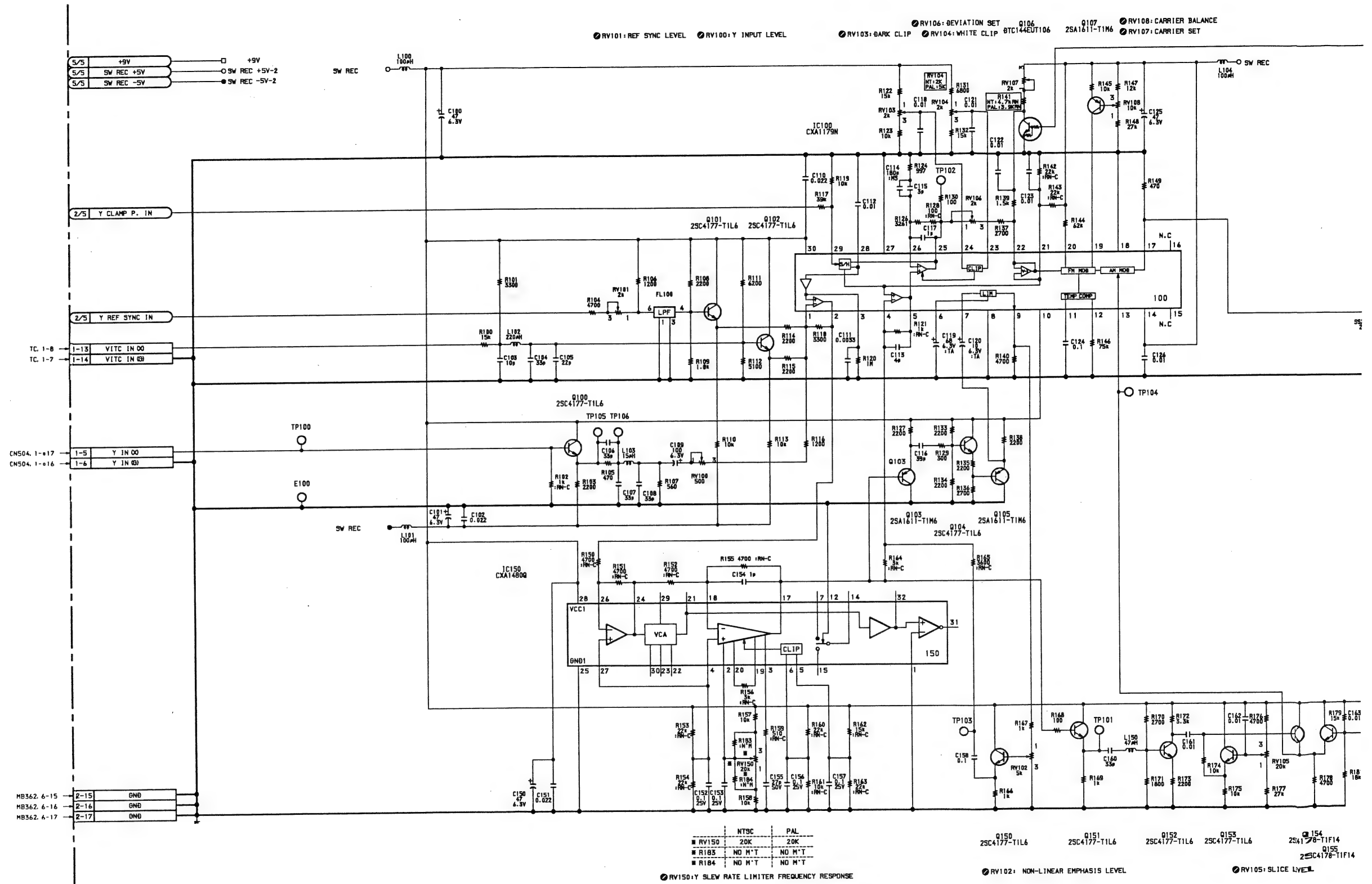
REC mode .....Record the 100 % color bars signal.  
PB mode .....Play back the color bars signal portion  
of the alignment tape CR5-1B PS.



VO-34P -B SIDE-  
1-640-269-15  
PVV-1P

**VO-34P BOARD (1/5)**  
Y Modulator  
Y REC Amplifier

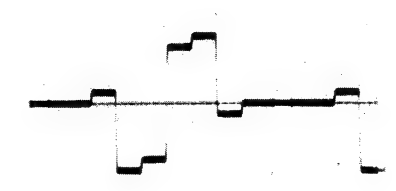
S/N 12391 and higher



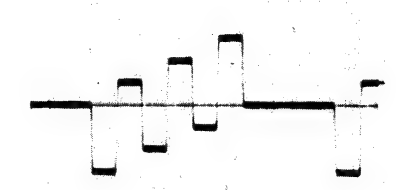




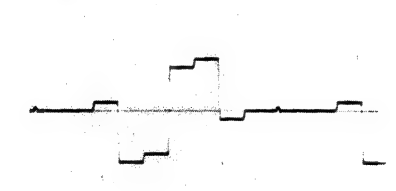
① CN1-1 pin R-Y 700mVp-p REC mode



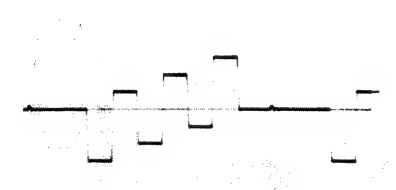
② CN1-3 pin B-Y 700mVp-p REC mode



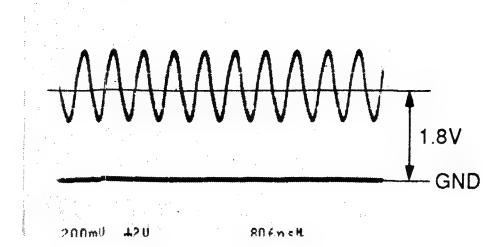
③ TP300 R-Y 1.45Vp-p REC mode



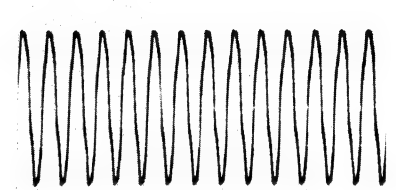
④ TP350 B-Y 1.45Vp-p REC mode



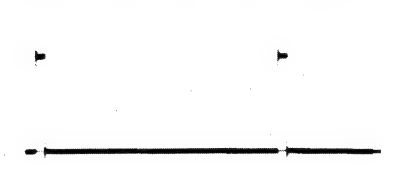
⑤ TP401 PLL VCO REC mode  
R1 1.75 V



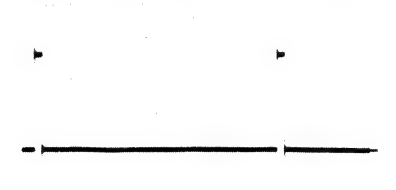
⑥ TP402 R-CK 6Vp-p REC mode



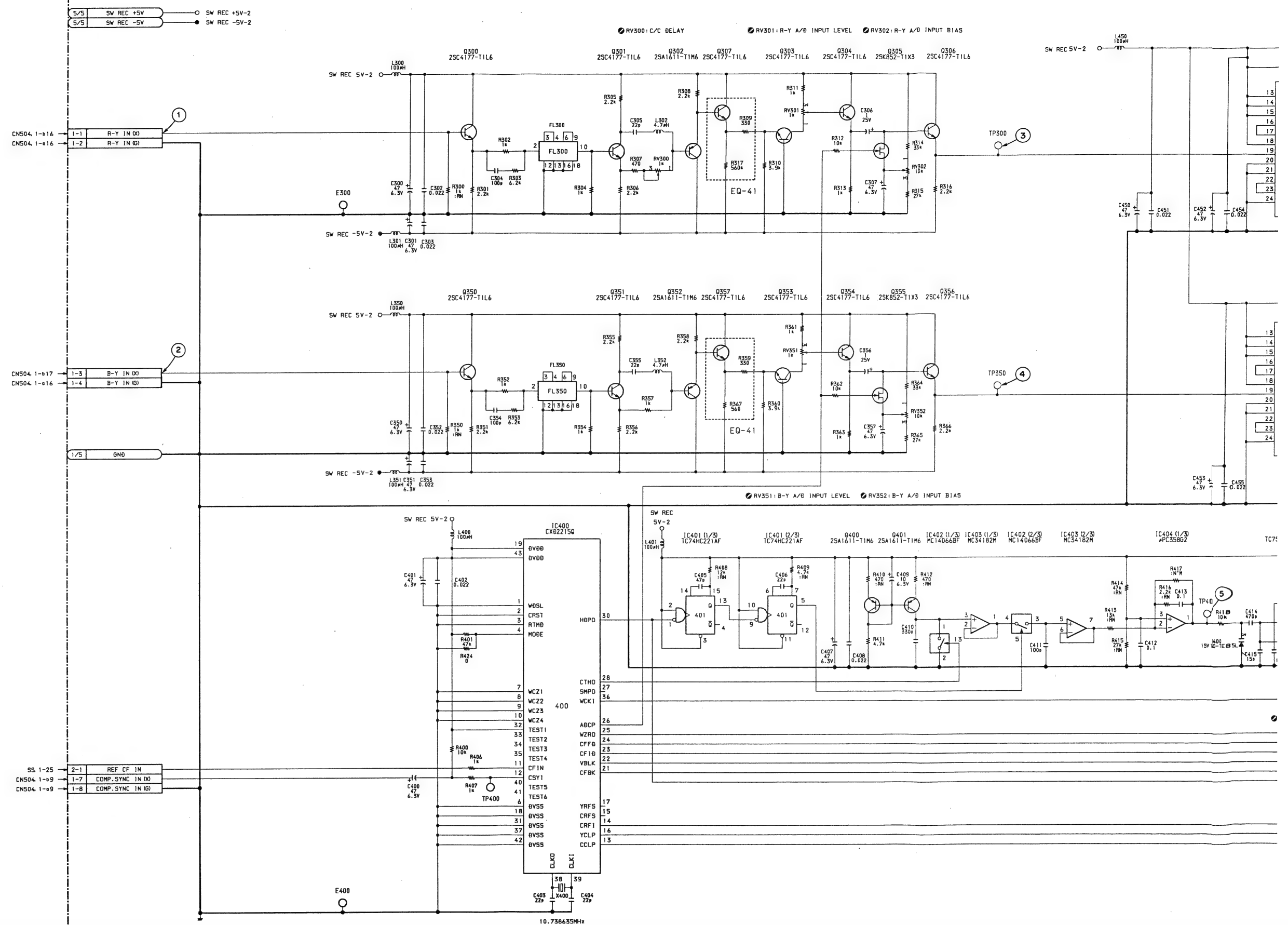
⑦ TP403 Y REF SYNC 5Vp-p REC mode

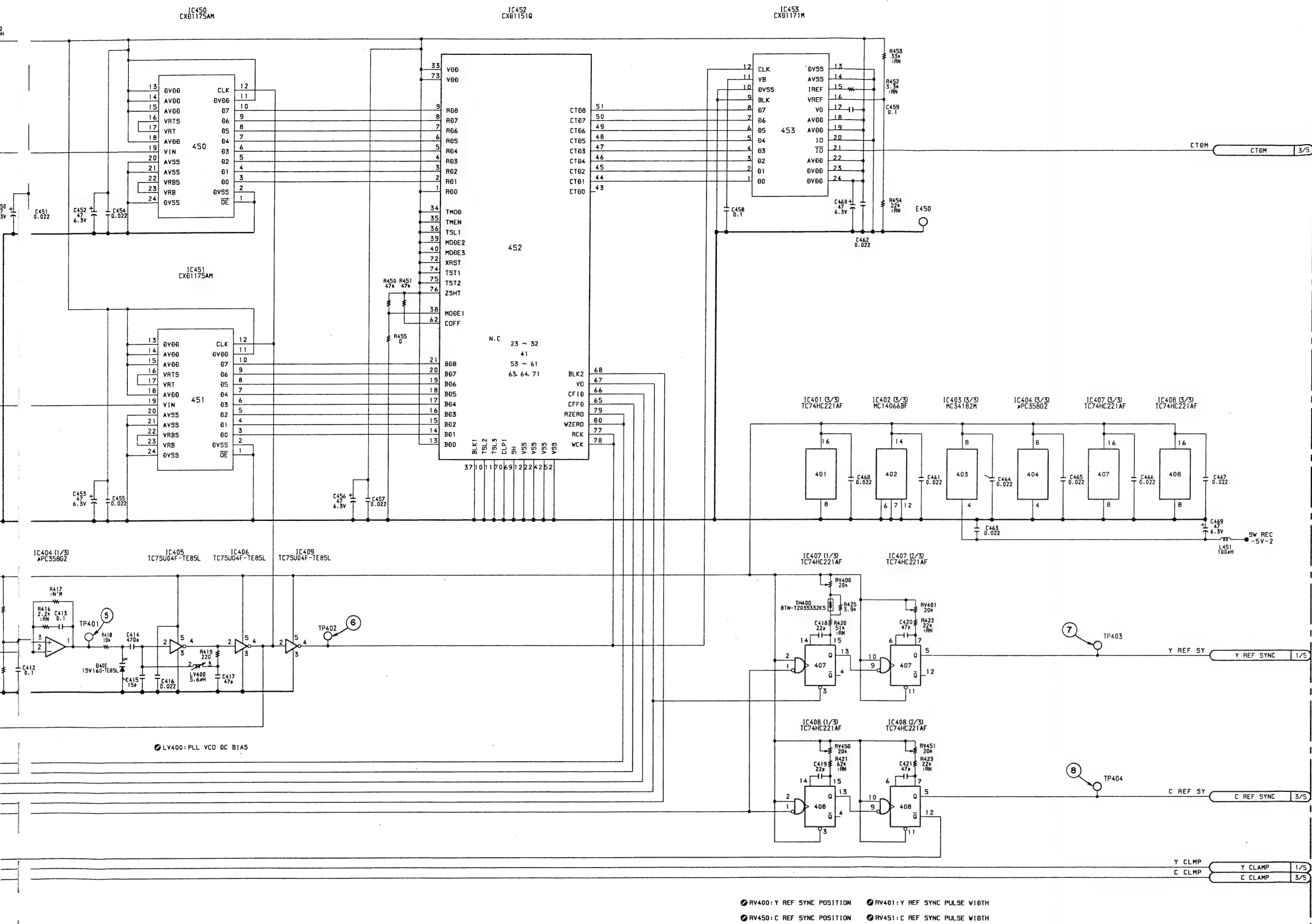


⑧ TP404 C REF SYNC 5Vp-p REC mode



REC mode.....Record the 100 % color bars signal.  
PB mode.....Play back the color bars signal portion  
of the alignment tape CR5-1B PS.





**V0-34P BOARD (2/5)**  
 1-640-269-12  
 PVV-1P (EK); #10001-10100

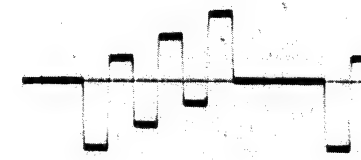
V0-34P (2/5)

S/N 10101 through 11420

① CN1-1 pin R-Y 700mVp-p REC mode



② CN1-3 pin B-Y 700mVp-p REC mode



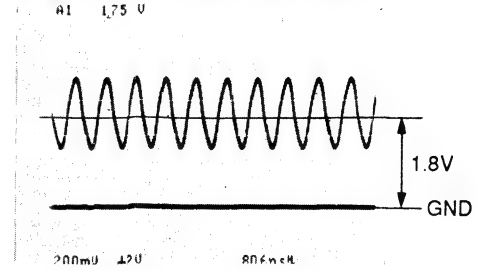
③ TP300 R-Y 1.45Vp-p REC mode



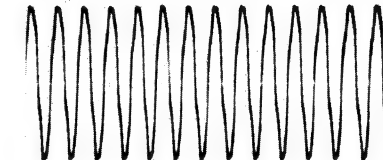
④ TP350 B-Y 1.45Vp-p REC mode



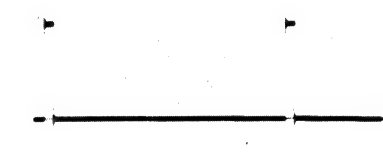
⑤ TP401 PLL VCO REC mode



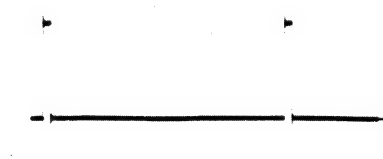
⑥ TP402 R-CK 6Vp-p REC mode



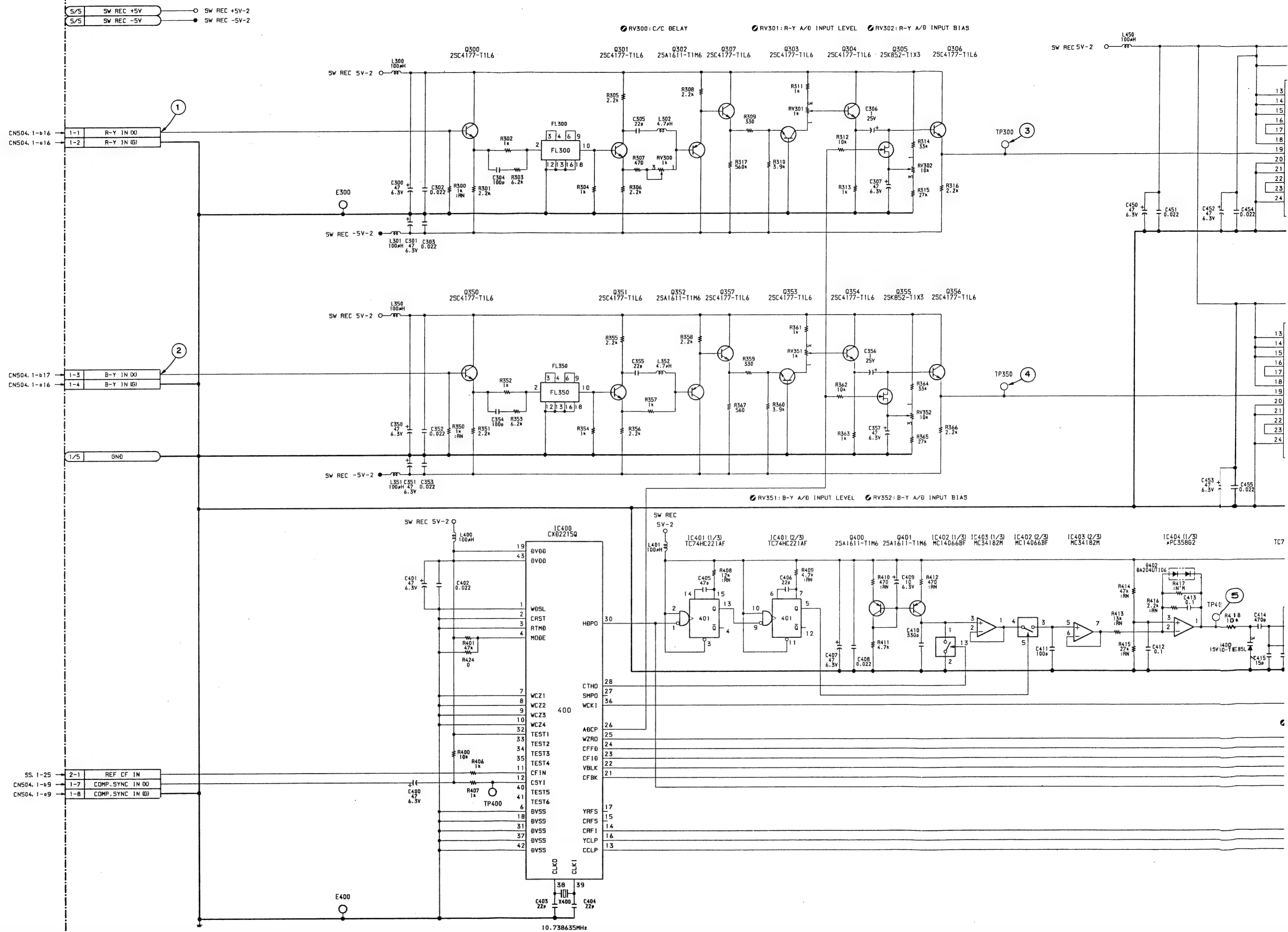
⑦ TP403 Y REF SYNC 5Vp-p REC mode

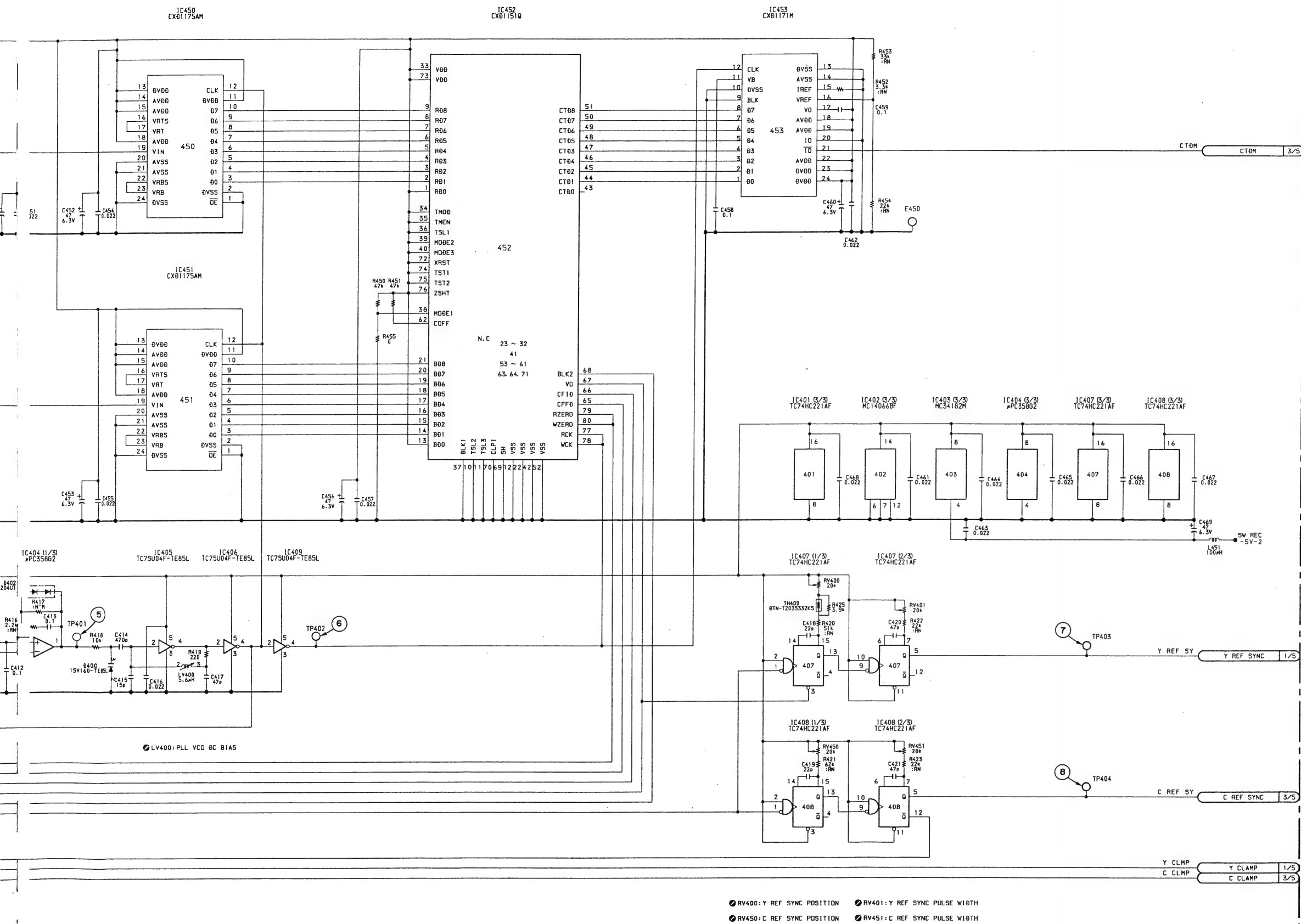


⑧ TP404 C REF SYNC 5Vp-p REC mode



REC mode.....Record the 100 % color bars signal.  
PB mode.....Play back the color bars signal portion  
of the alignment tape CR5-1B PS.





## VO-34P BOARD (2/5)

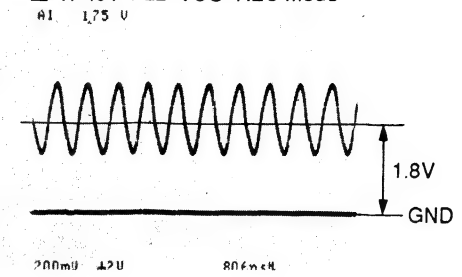
1-640-269-13

PVV-1P (EK) : #10101-11420

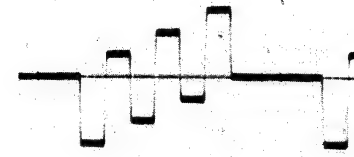
CN1-1 pin R-Y 700mVp-p REC mode



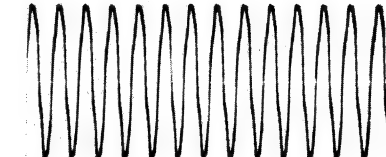
TP401 PLL VCO REC mode



CN1-3 pin B-Y 700mVp-p REC mode



TP402 R-CK 6Vp-p REC mode



TP300 R-Y 1.45Vp-p REC mode



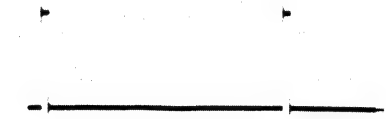
TP403 Y REF SYNC 5Vp-p REC mode



TP350 B-Y 1.45Vp-p REC mode



TP404 C REF SYNC 5Vp-p REC mode

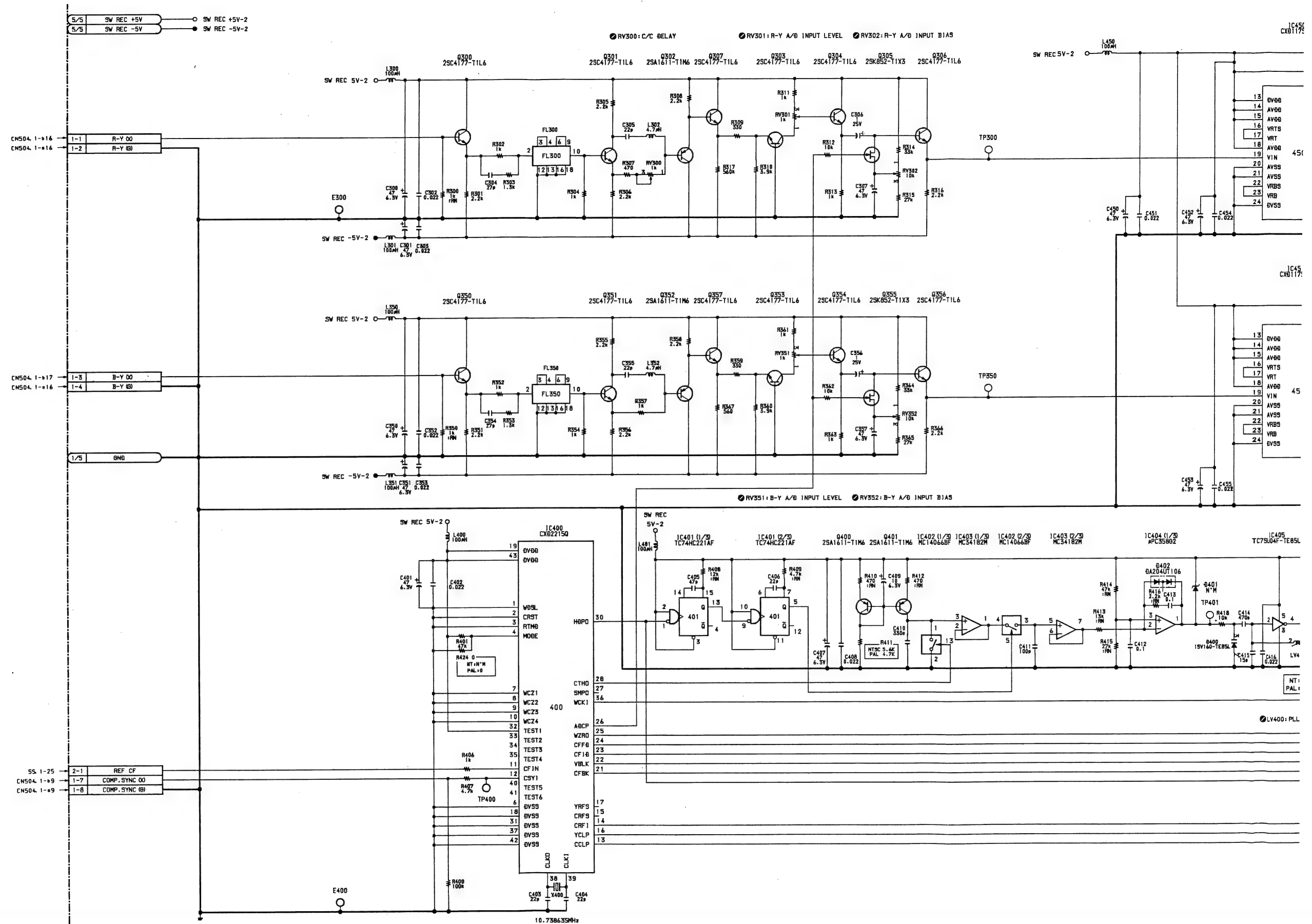


REC mode.....Record the 100 % color bars signal.  
PB mode.....Play back the color bars signal portion  
of the alignment tape CR5-1B PS.

## VO-34P BOARD (2/5)

Y Modulator  
Y REC Amplifier

S/N 11421 through 12390



11 - 5 (c)

11 - 5 (c)

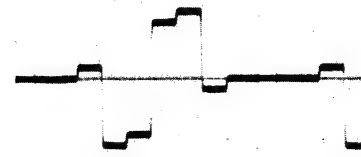




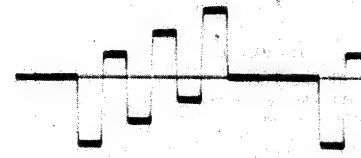
## VO-34P (2/5)

S/N 12391 and higher

CN1-1 pin R-Y 700mVp-p REC mode



CN1-3 pin B-Y 700mVp-p REC mode



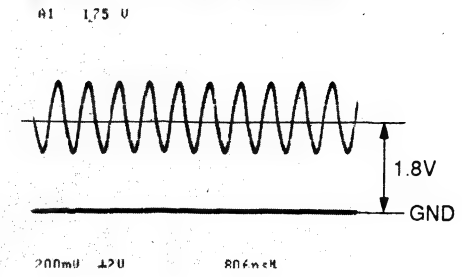
TP300 R-Y 1.45Vp-p REC mode



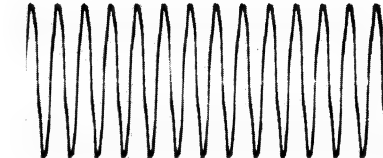
TP350 B-Y 1.45Vp-p REC mode



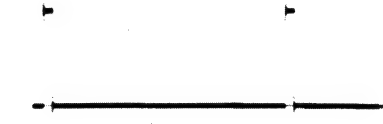
TP401 PLL VCO REC mode



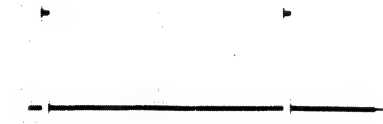
TP402 R-CK 6Vp-p REC mode



TP403 Y REF SYNC 5Vp-p REC mode



TP404 C REF SYNC 5Vp-p REC mode

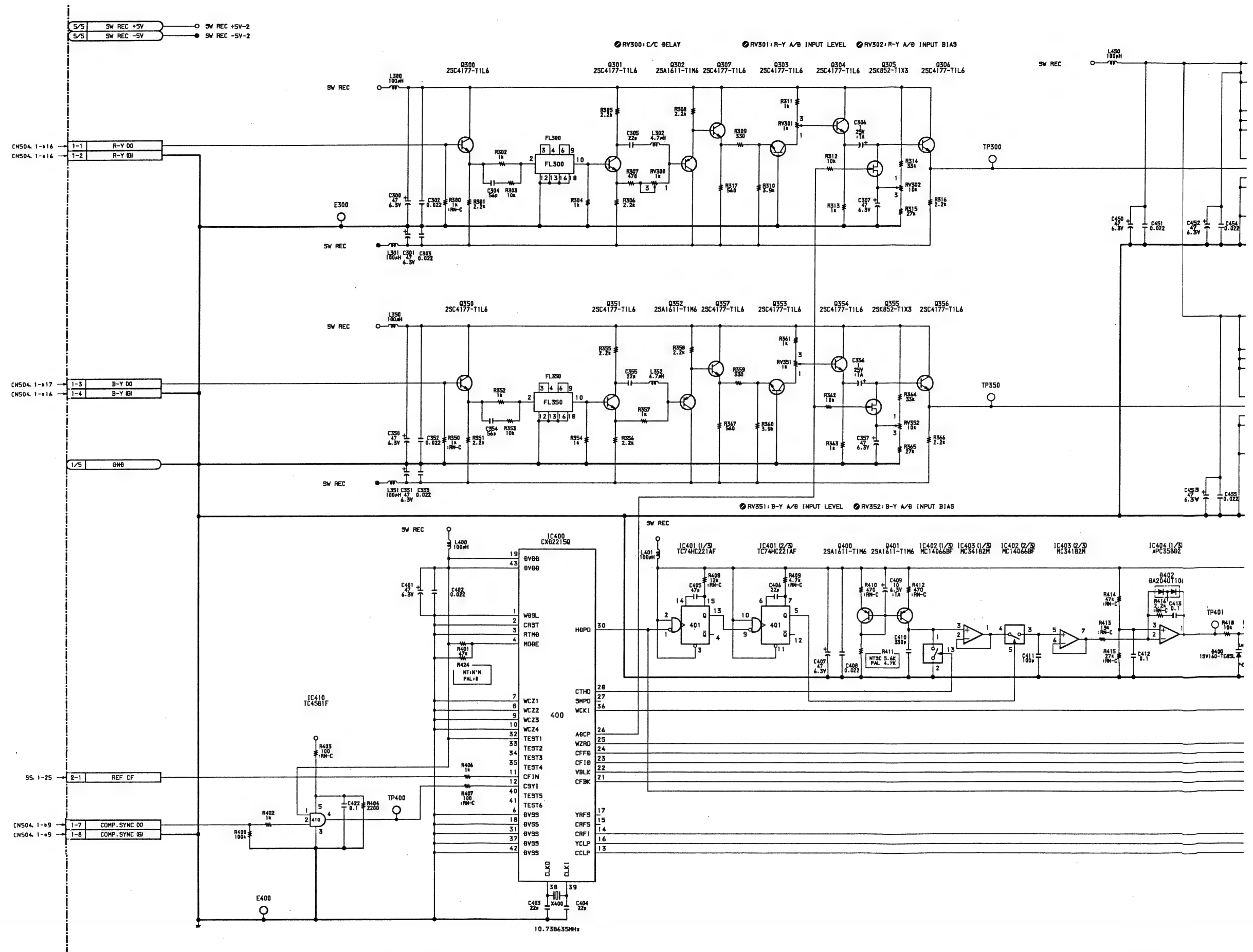


REC mode .....Record the 100 % color bars signal.  
 PB mode.....Play back the color bars signal portion  
 of the alignment tape CR5-1B PS.

VO-34P BOARD (2/5)

Y Modulator  
Y REC Amplifier

S/N 12391 and higher



11-5 (d)

11-5 (d)

A

B

C

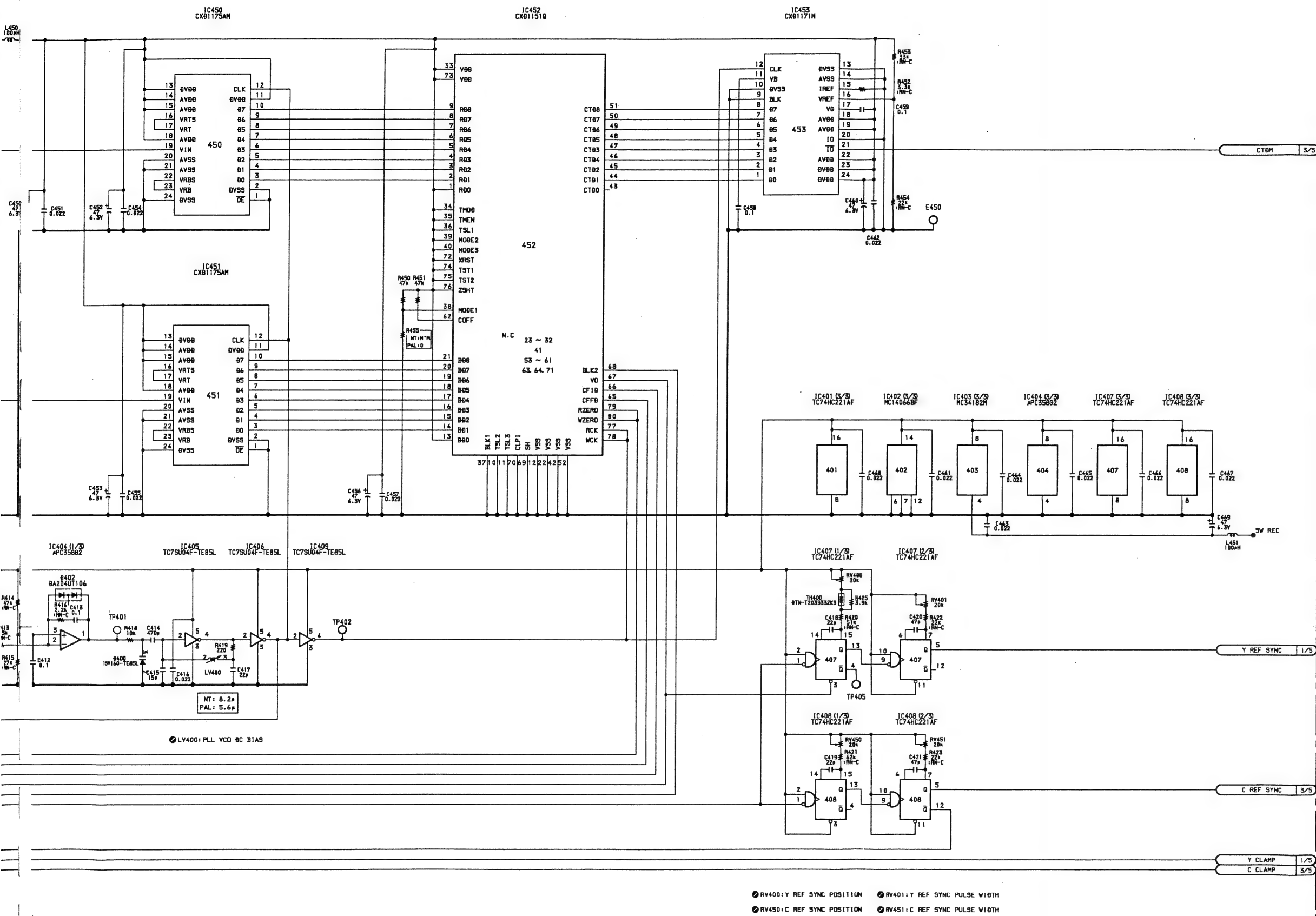
D

E

F

G

H



## VO-34P BOARD (2/5)

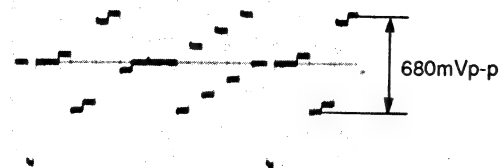
1-640-269-15

PVV-1P (EK) ; #12391-

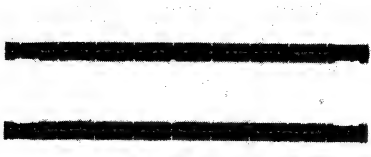
① ■ TP505 CTDM 1.45Vp-p REC mode



④ ■ TP501 REC mode



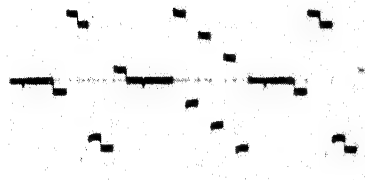
⑧ ■ TP600 C-FM 440mVp-p REC mode



⑪ IC561-4 pin AFM PILOT 5Vp-p REC mode



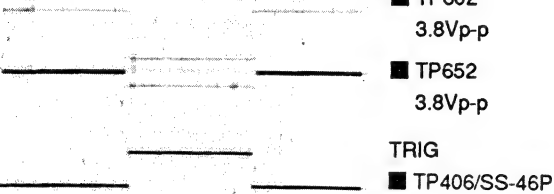
② ■ TP500 CTDM 715mVp-p REC mode



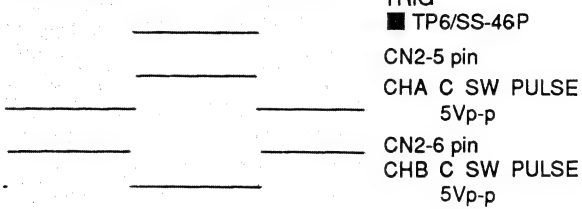
⑤ ■ TP503 45mVp-p REC mode



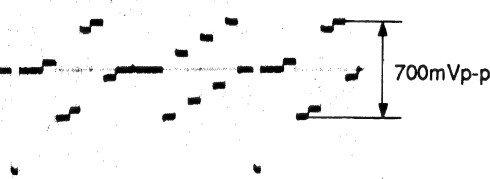
⑨ REC mode



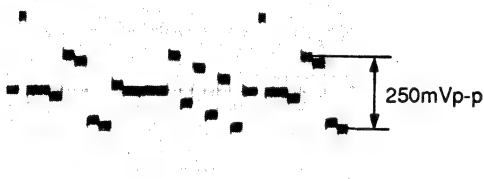
⑫ REC mode



③ IC500-2 pin CTDM REC mode



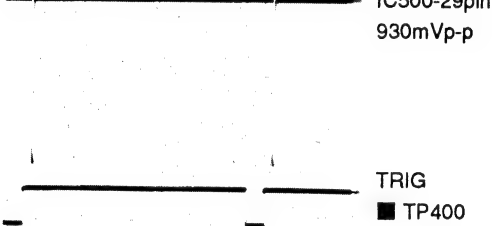
⑥ ■ TP507 REC mode



⑩ IC560-4 pin AFM PILOT 5Vp-p REC mode



⑬ REC mode

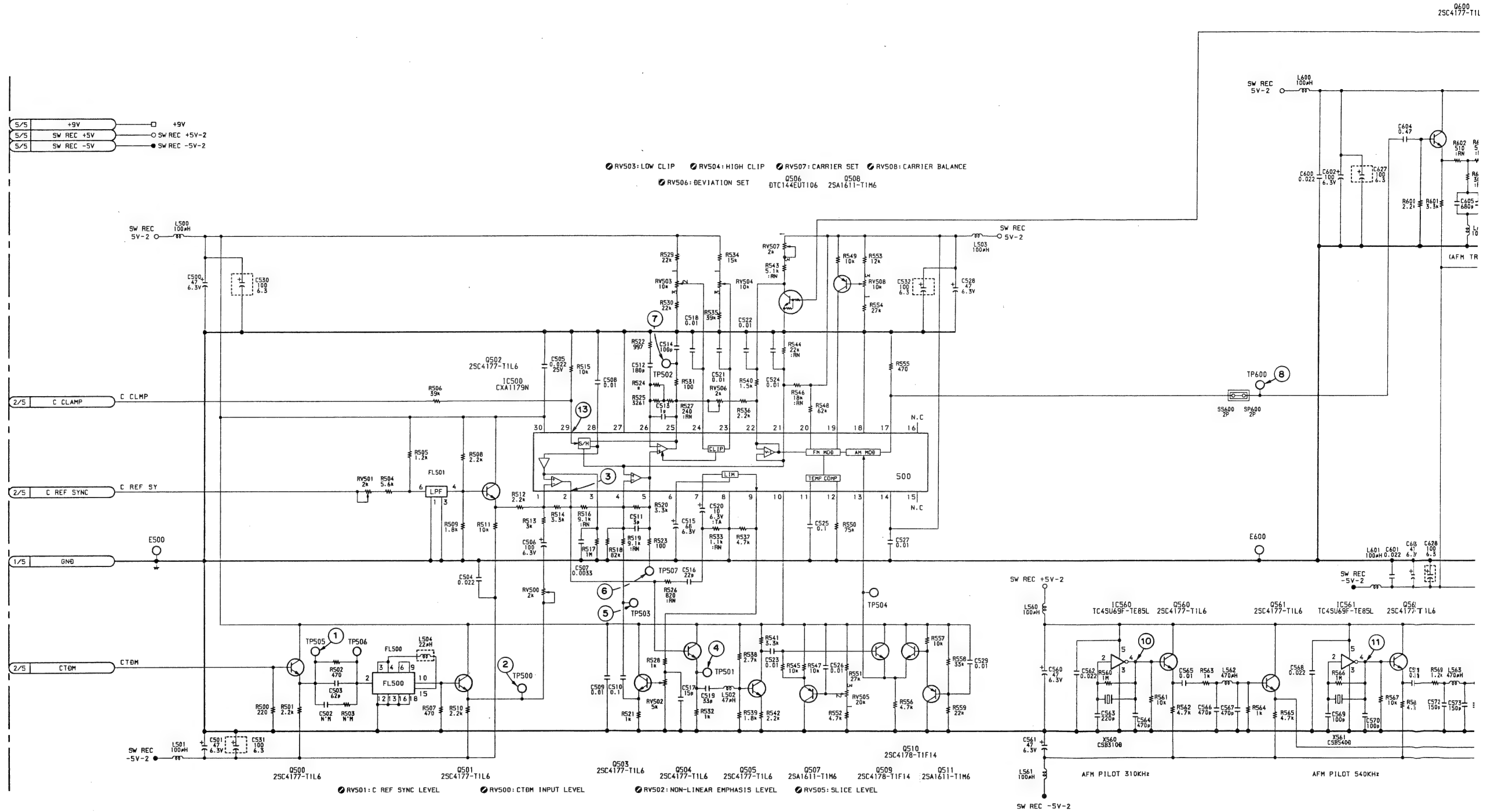


REC mode .....Record the 100 % color bars signal.  
PB mode.....Play back the color bars signal portion  
of the alignment tape CR5-1B PS.

VO-34P BOARD (3/5)

C Modulator  
C REC Amplifier  
AFM Pilot Oscillator

S/N 10001 through 10100



11-7 (a)

11-7 (a)



H

I

J

**K**

L

M

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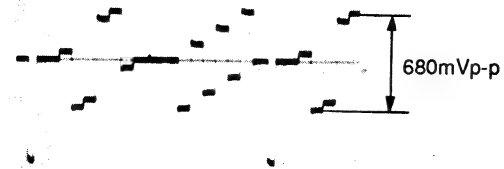
V0-34P (3/5)

S/N 10101 through 11420

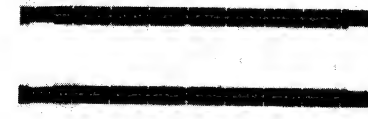
① ■ TP505 CTDM 1.45Vp-p REC mode



④ ■ TP501 REC mode



⑧ ■ TP600 C-FM 440mVp-p REC mode



⑪ IC561-4 pin AFM PILOT 5Vp-p REC mode



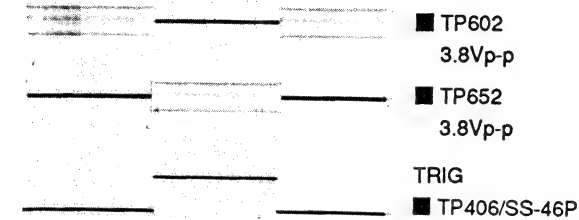
② ■ TP500 CTDM 715mVp-p REC mode



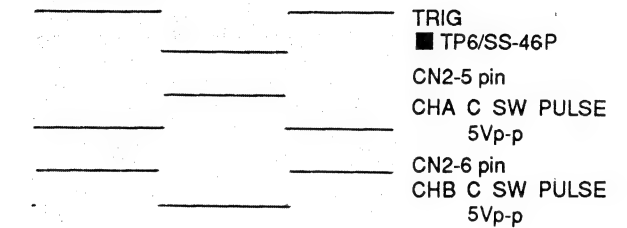
⑤ ■ TP503 45mVp-p REC mode



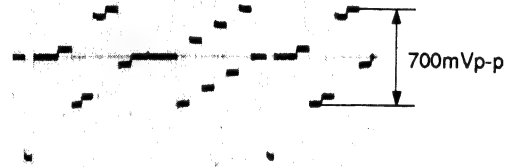
⑨ REC mode



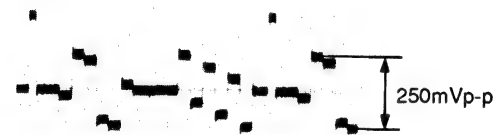
⑫ REC mode



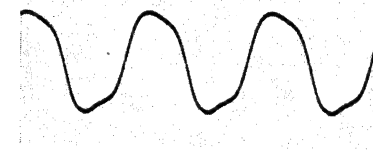
③ IC500-2 pin CTDM REC mode



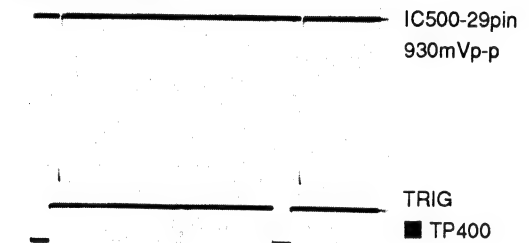
⑥ ■ TP507 REC mode



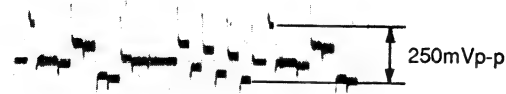
⑩ IC560-4 pin AFM PILOT 5Vp-p REC mode



⑬ REC mode



⑦ ■ TP502 REC mode

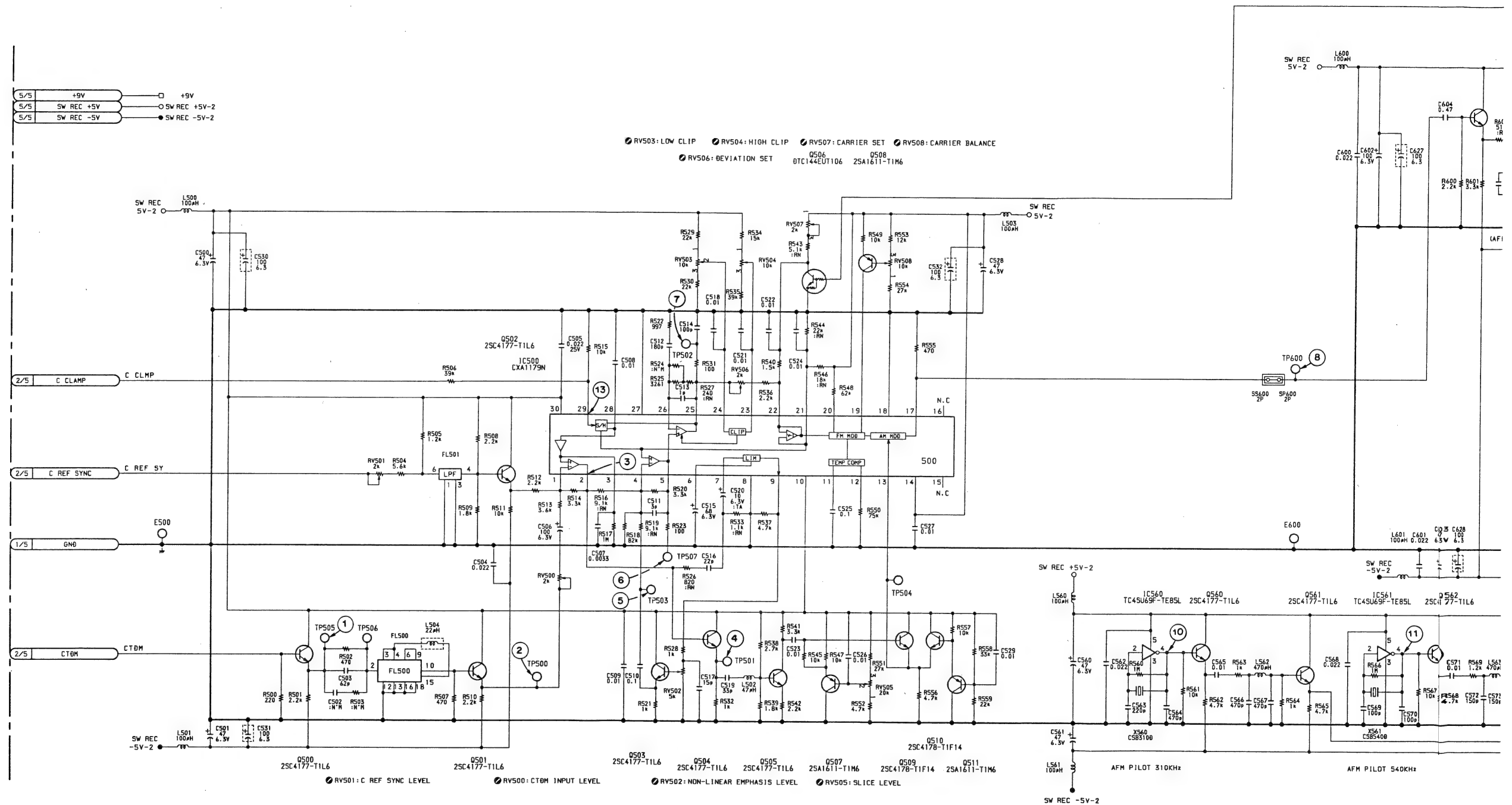


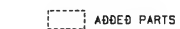
REC mode.....Record the 100 % color bars signal.  
PB mode.....Play back the color bars signal portion  
of the alignment tape CR5-1B PS.

V0-34P BOARD (3/5)

C Modulator  
C REC Amplifier  
AFM Pilot Oscillator

S/N 10101 through 11420





**VO-34P BOARD (3/5)**  
1-640-269-13  
PVV-1P (EK) : #10101-11420

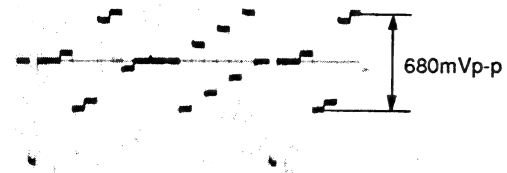
V0-34P (3/5)

S/N 11421 and higher

■ TP505 CTDM 1.45Vp-p REC mode



■ TP501 REC mode



■ TP600 C-FM 440mVp-p REC mode



IC561-4 pin AFM PILOT 5Vp-p REC mode



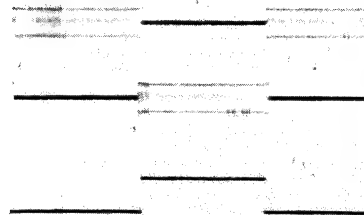
■ TP500 CTDM 715mVp-p REC mode



■ TP503 45mVp-p REC mode



REC mode



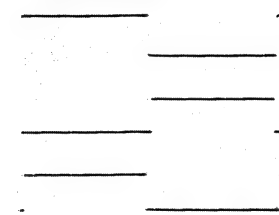
■ TP602 3.8Vp-p

■ TP652 3.8Vp-p

TRIG

■ TP406/SS-46P

REC mode



TRIG

■ TP6/SS-46P

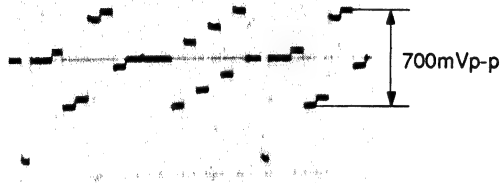
CN2-5 pin

CHA C SW PULSE 5Vp-p

CN2-6 pin

CHB C SW PULSE 5Vp-p

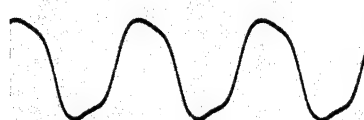
IC500-2 pin CTDM REC mode



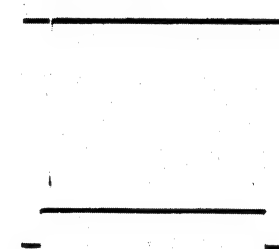
■ TP507 REC mode



IC560-4 pin AFM PILOT 5Vp-p REC mode



REC mode

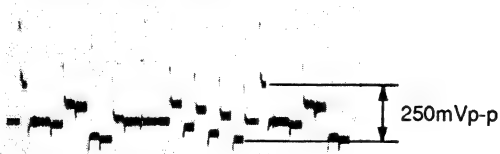


IC500-29pin 930mVp-p

TRIG

■ TP400

■ TP502 REC mode

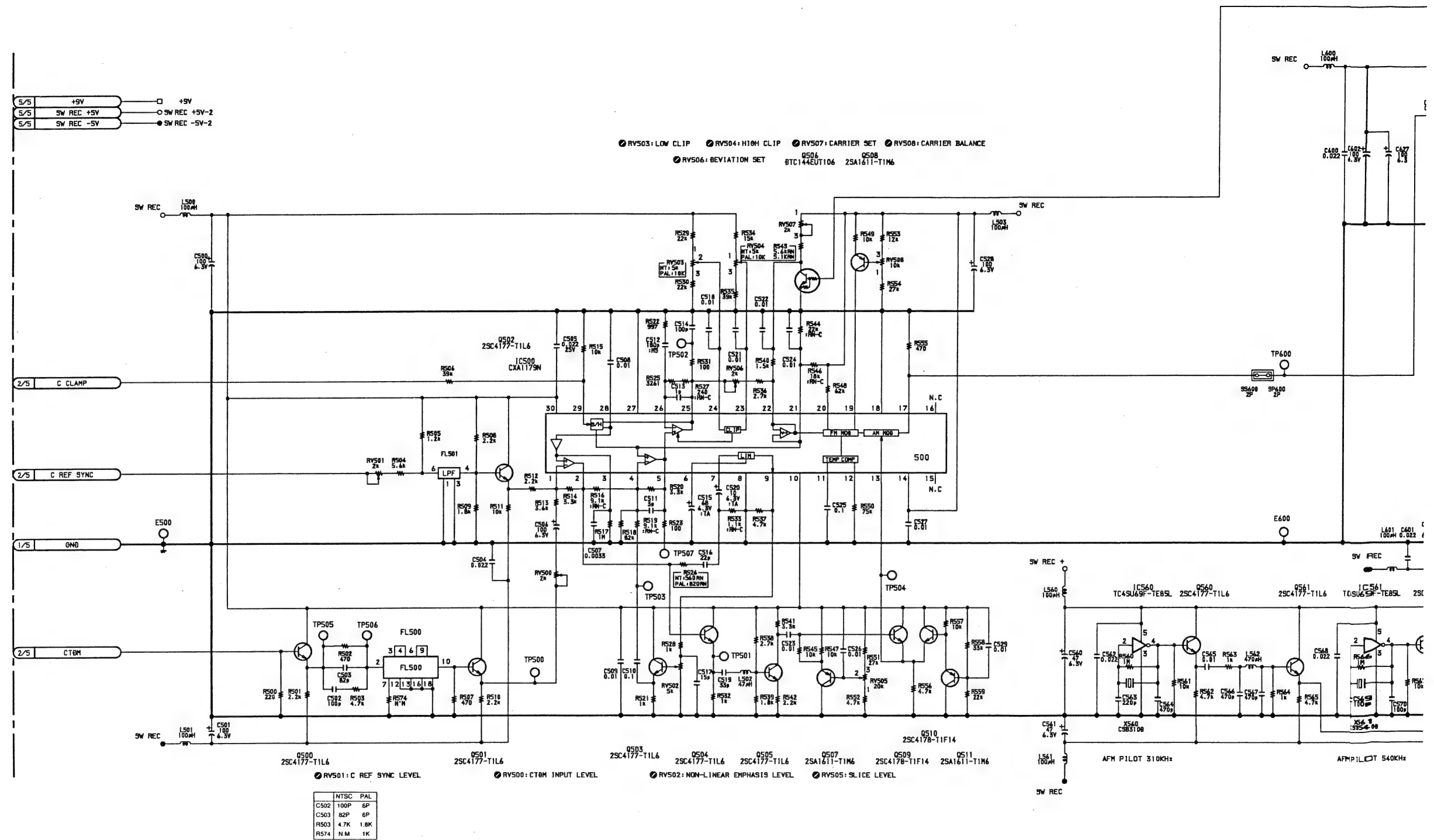


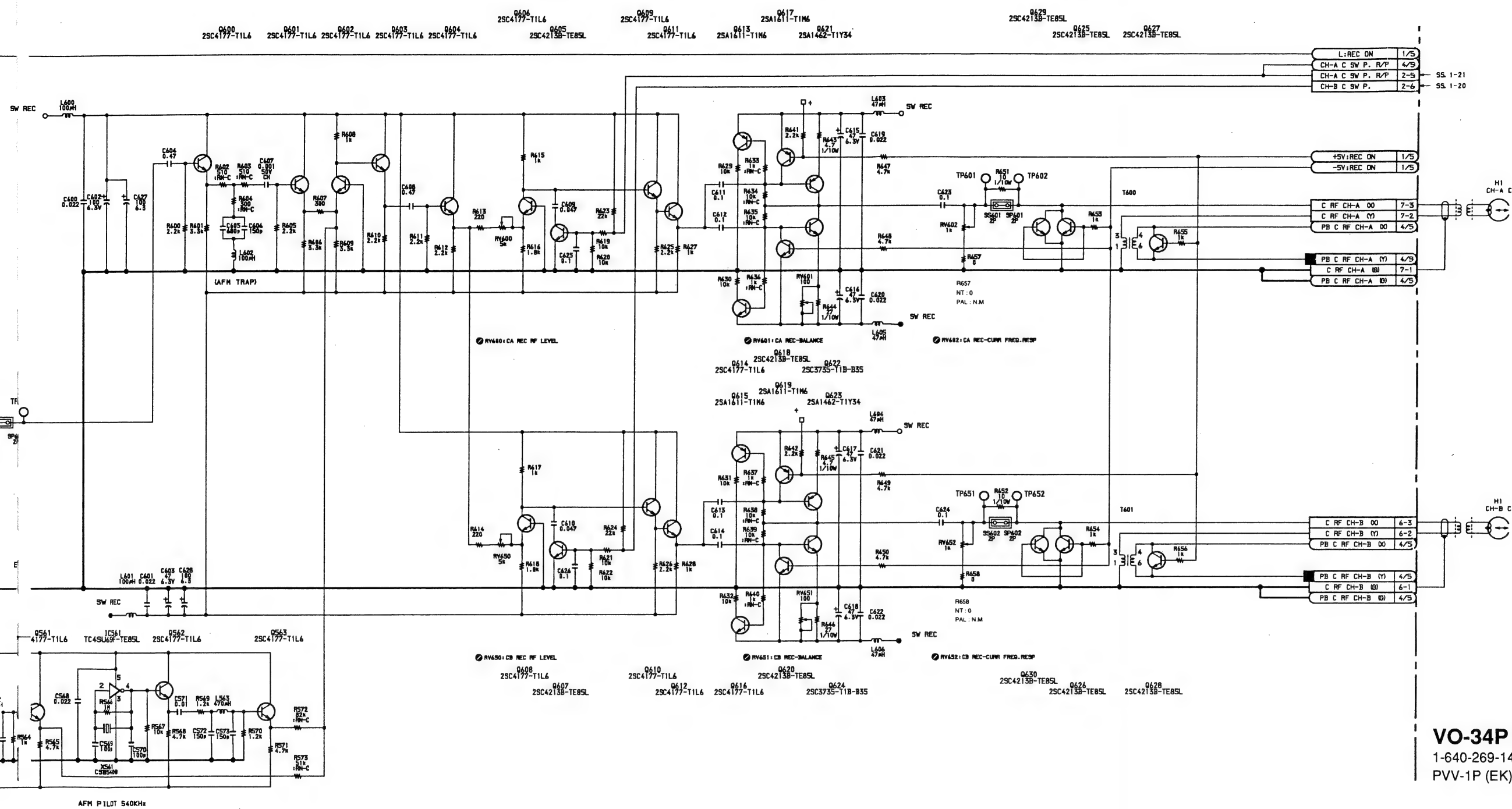
REC mode.....Record the 100 % color bars signal.  
PB mode.....Play back the color bars signal portion  
of the alignment tape CR5-1B PS.

VO-34P BOARD (3/5)

Y Modulator  
Y REC Amplifier

S/N 11421 and higher





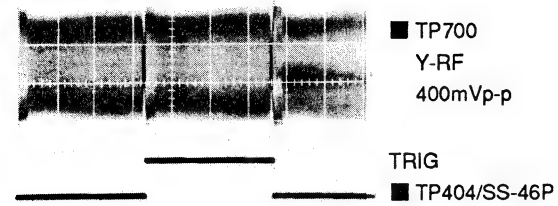
## VO-34P BOARD (3/5)

1-640-269-14, 15  
PVV-1P (EK) ; #11421-

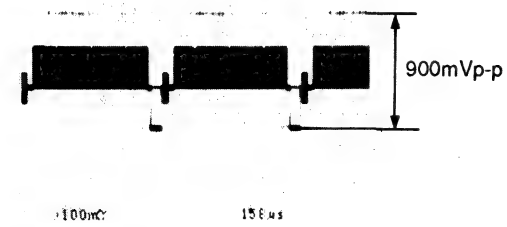
V0-34P (4/5)

S/N 10001 through 10100

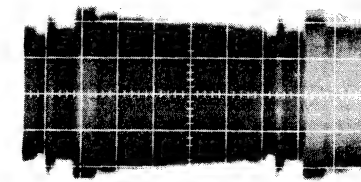
① PB mode



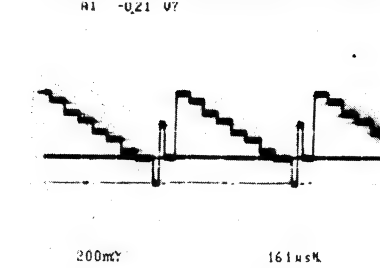
④ CN2-3 pin CHARACTER VIDEO DIAG mode



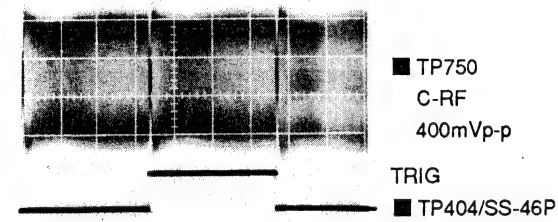
⑦ IC801-48 pin PB RF 150mVp-p PB mode



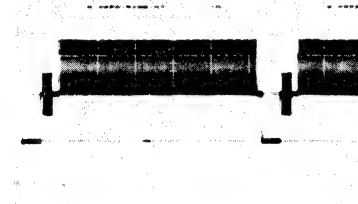
⑪ IC801-37 pin 500mVp-p PB mode



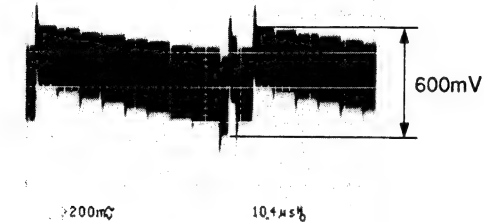
② PB mode



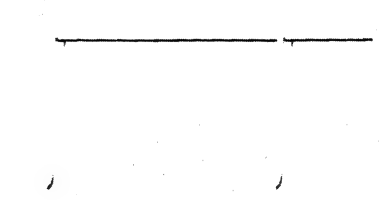
⑤ TP851 680mVp-p DIAG mode



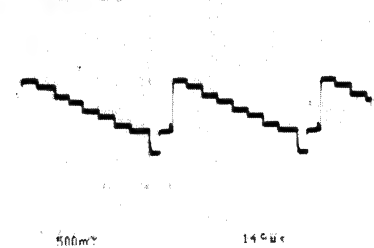
⑧ IC801-12 pin DEMOD OUTPUT PB mode



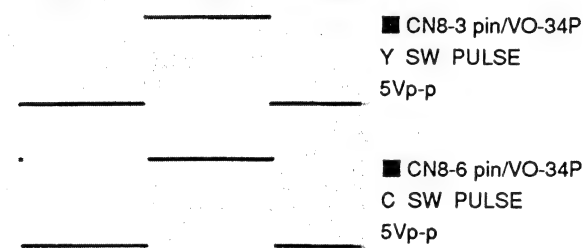
⑫ IC801-5 pin CLAMP PULSE 2Vp-p PB mode



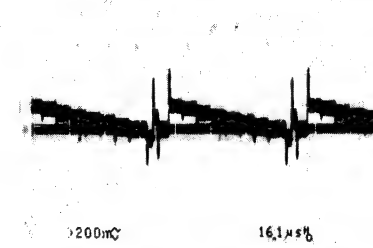
③ TP800 PB VIDEO 1Vp-p PB mode



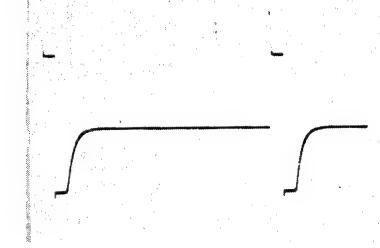
⑥ CN8-3 pin and CN8-6 pin PB mode



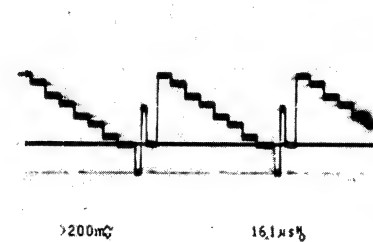
⑨ IC801-40 pin 700mVp-p PB mode



⑬ IC801-6 pin 5.5Vp-p PB mode

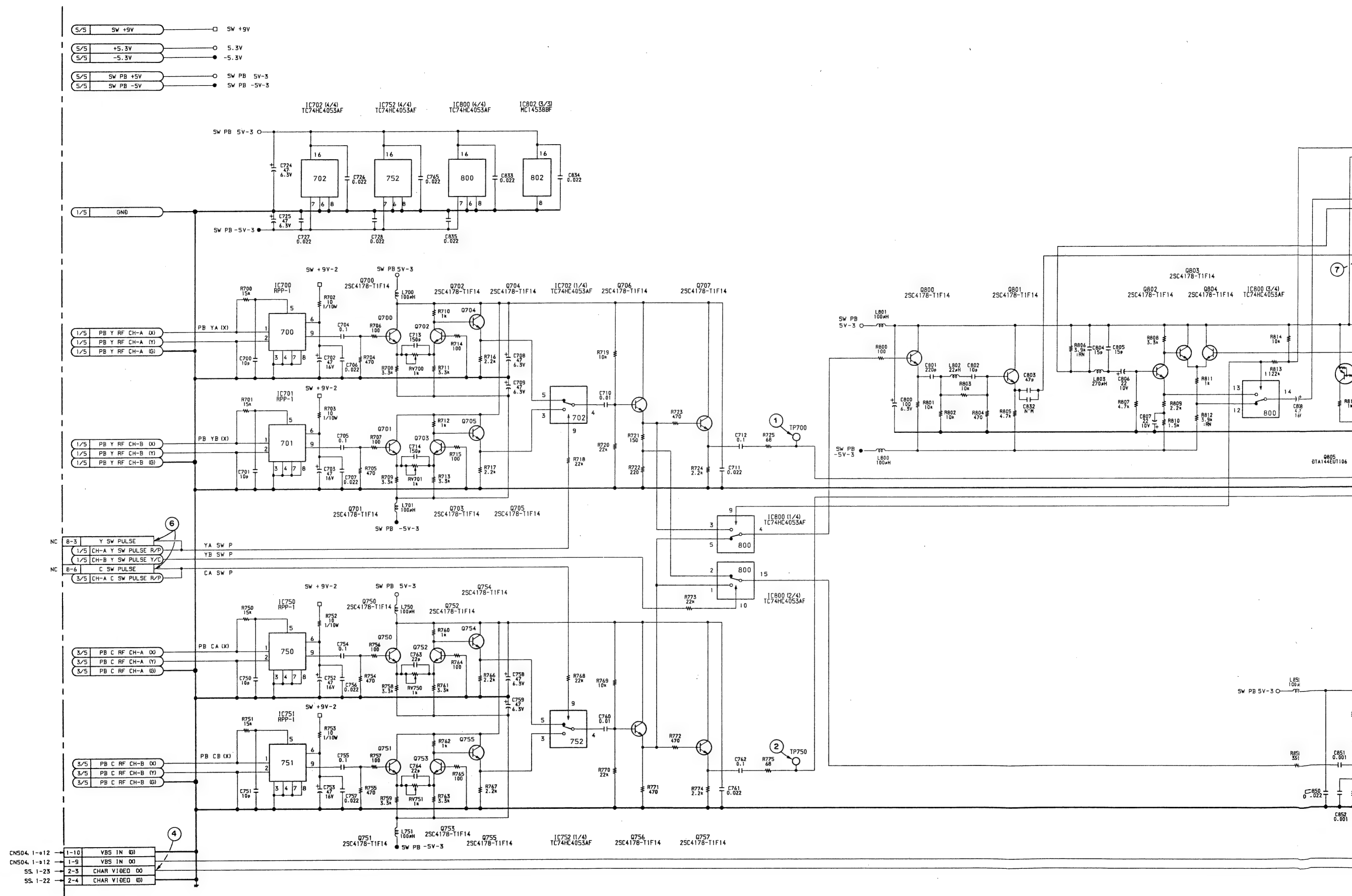


⑩ IC801-35 pin 750mVp-p PB mode



REC mode.....Record the 100 % color bars signal.  
PB mode.....Play back the color bars signal portion  
of the alignment tape CR5-1B PS.





11-9 (a)

**A**

**B**

**C**

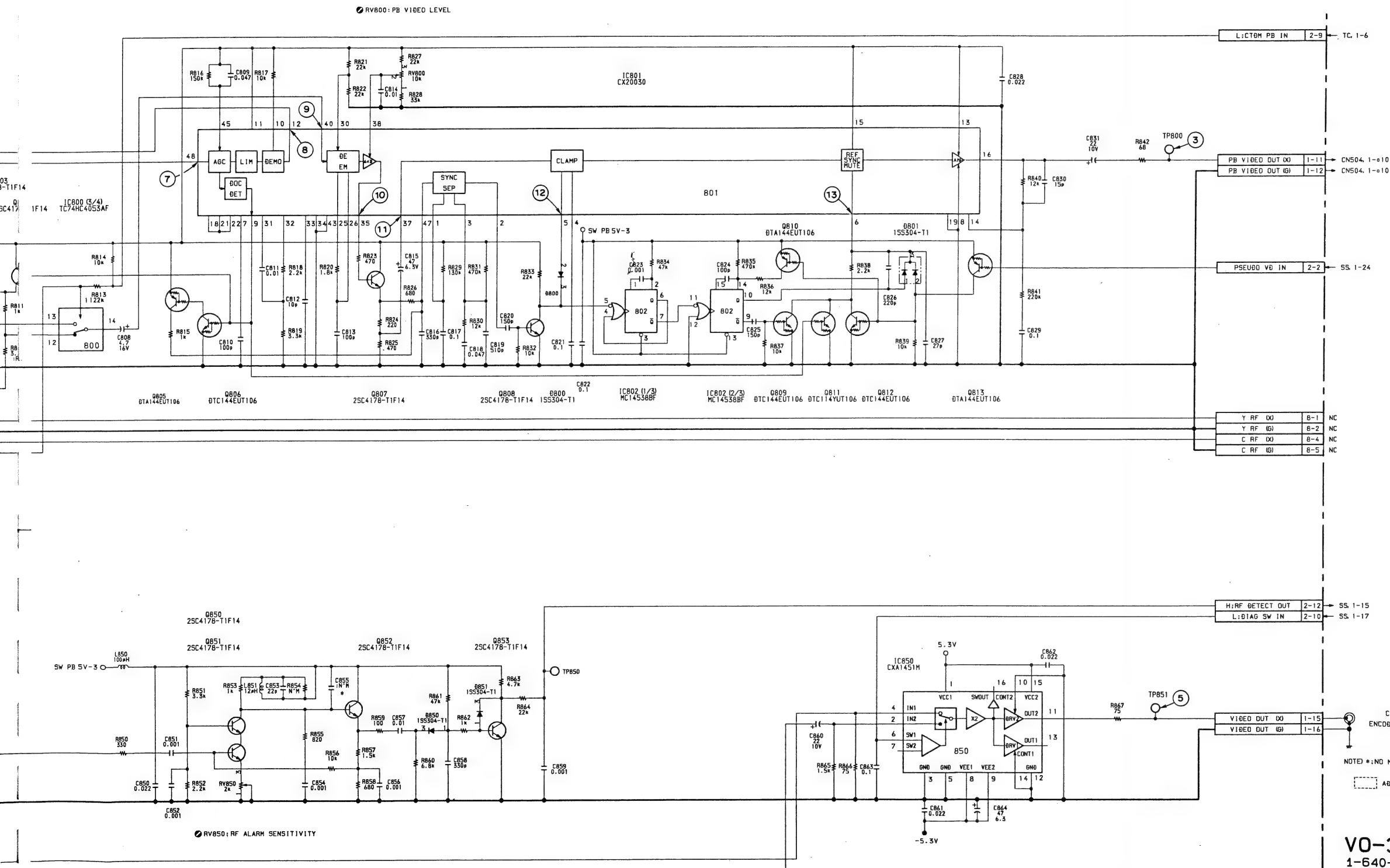
**D**

E

F

G

4

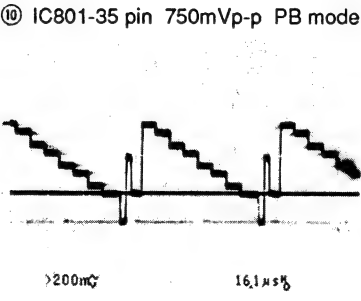
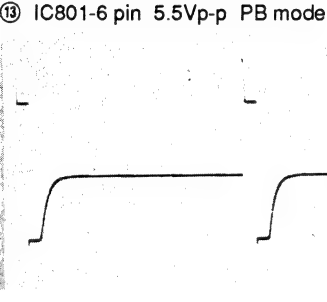
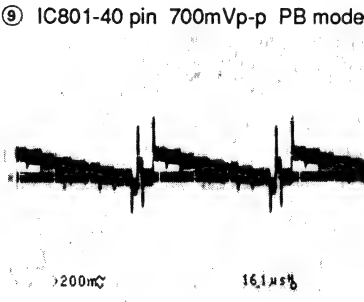
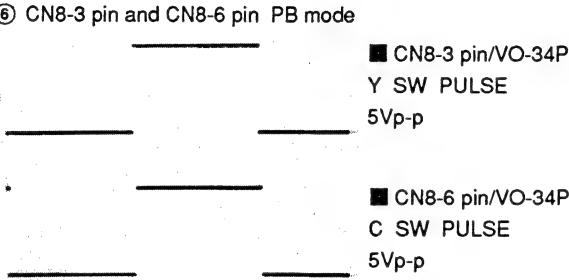
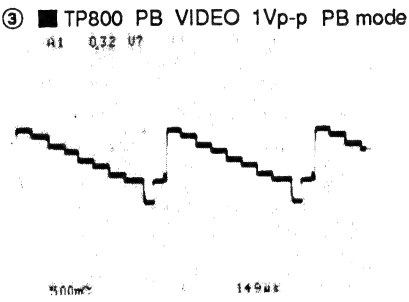
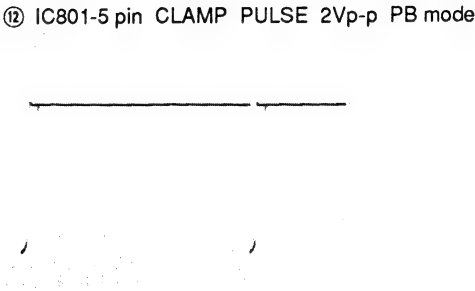
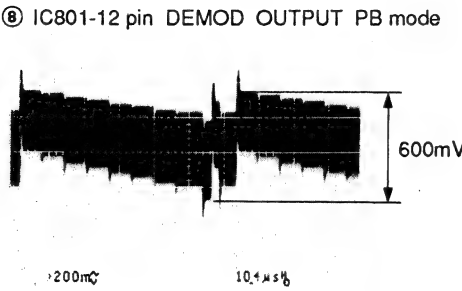
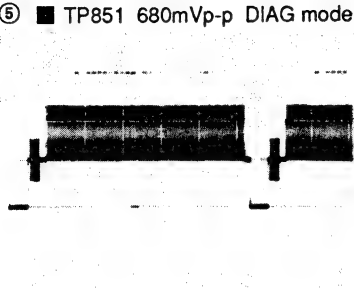
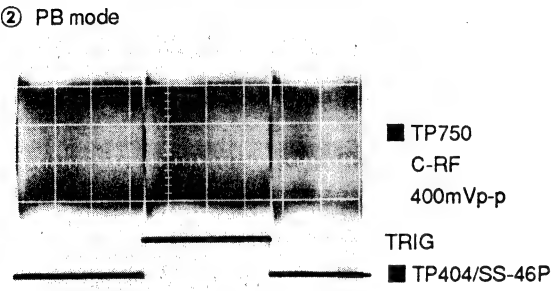
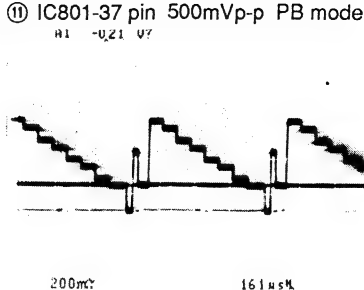
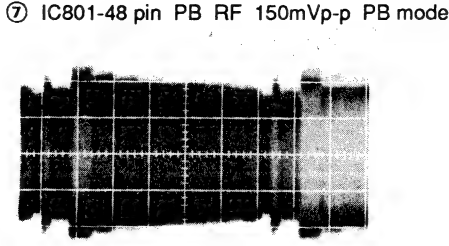
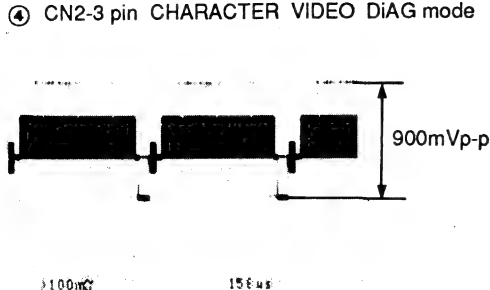
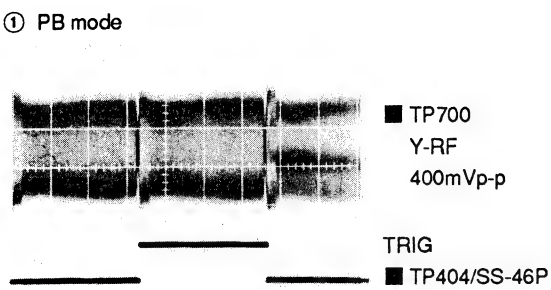


VO-34P BOARD (4/5)  
1-640-269-12  
PVV-1P (EK) ; #10001-10100

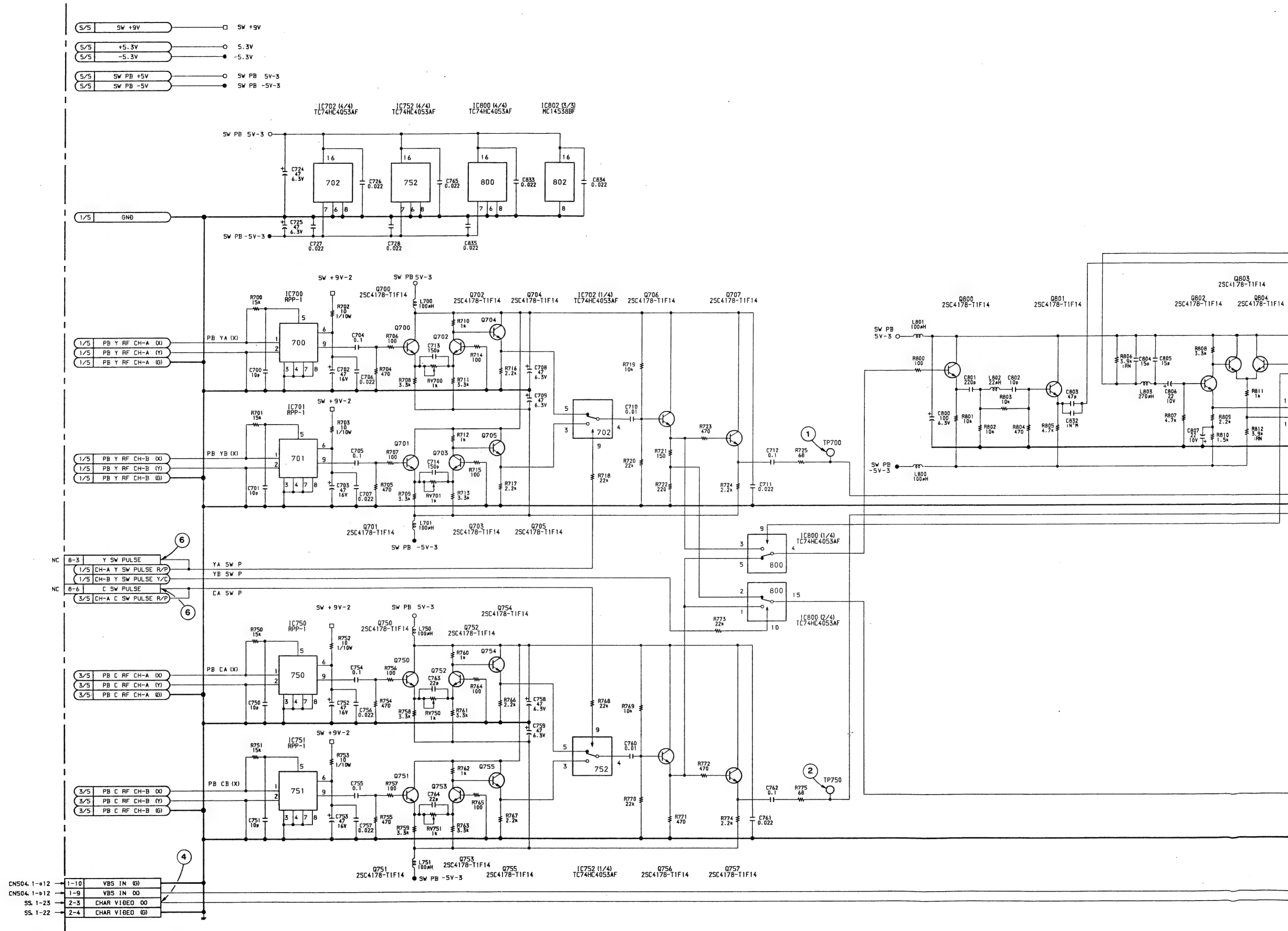
1-9 (a)

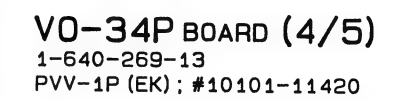
11-9 (a)

11-9 (a)

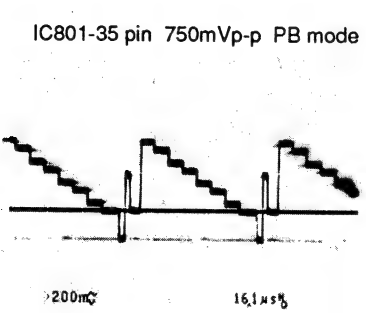
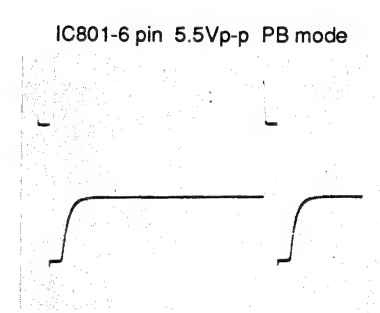
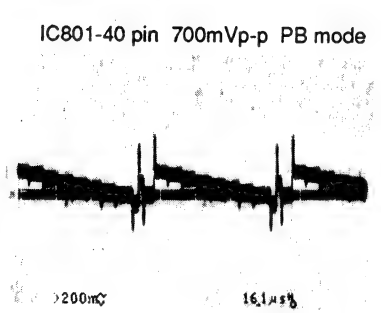
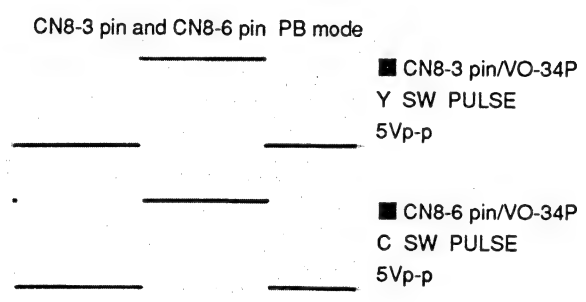
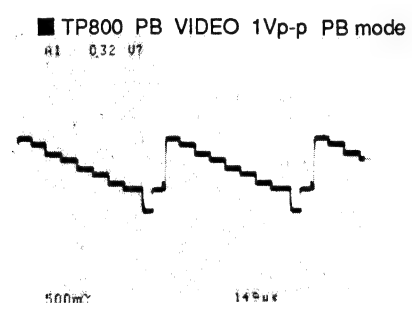
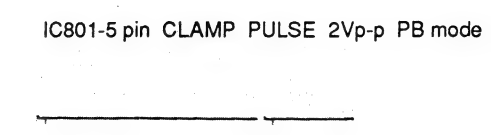
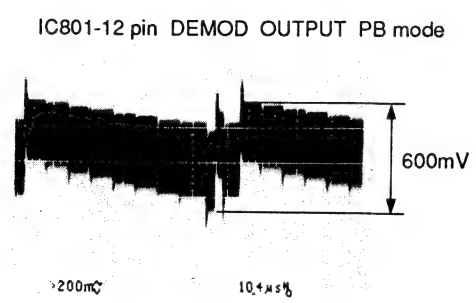
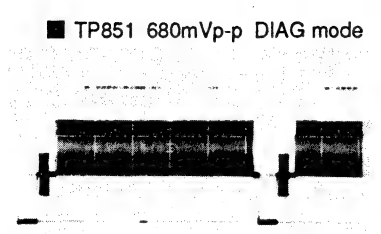
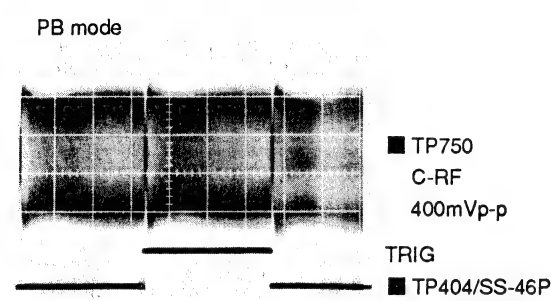
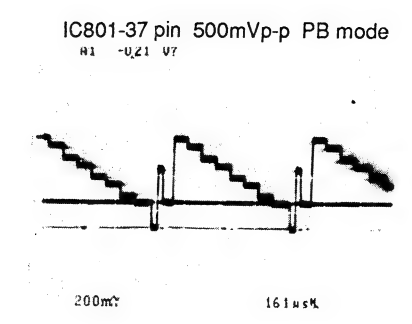
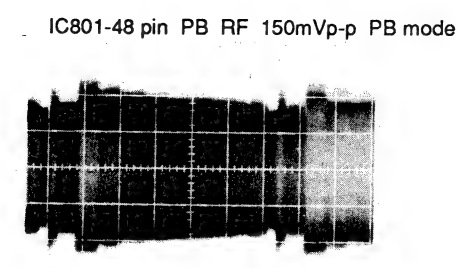
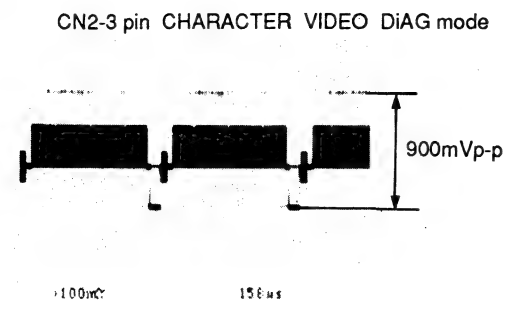
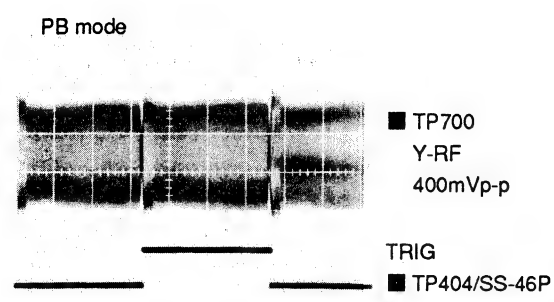


REC mode.....Record the 100 % color bars signal.  
PB mode.....Play back the color bars signal portion  
of the alignment tape CR5-1B PS.





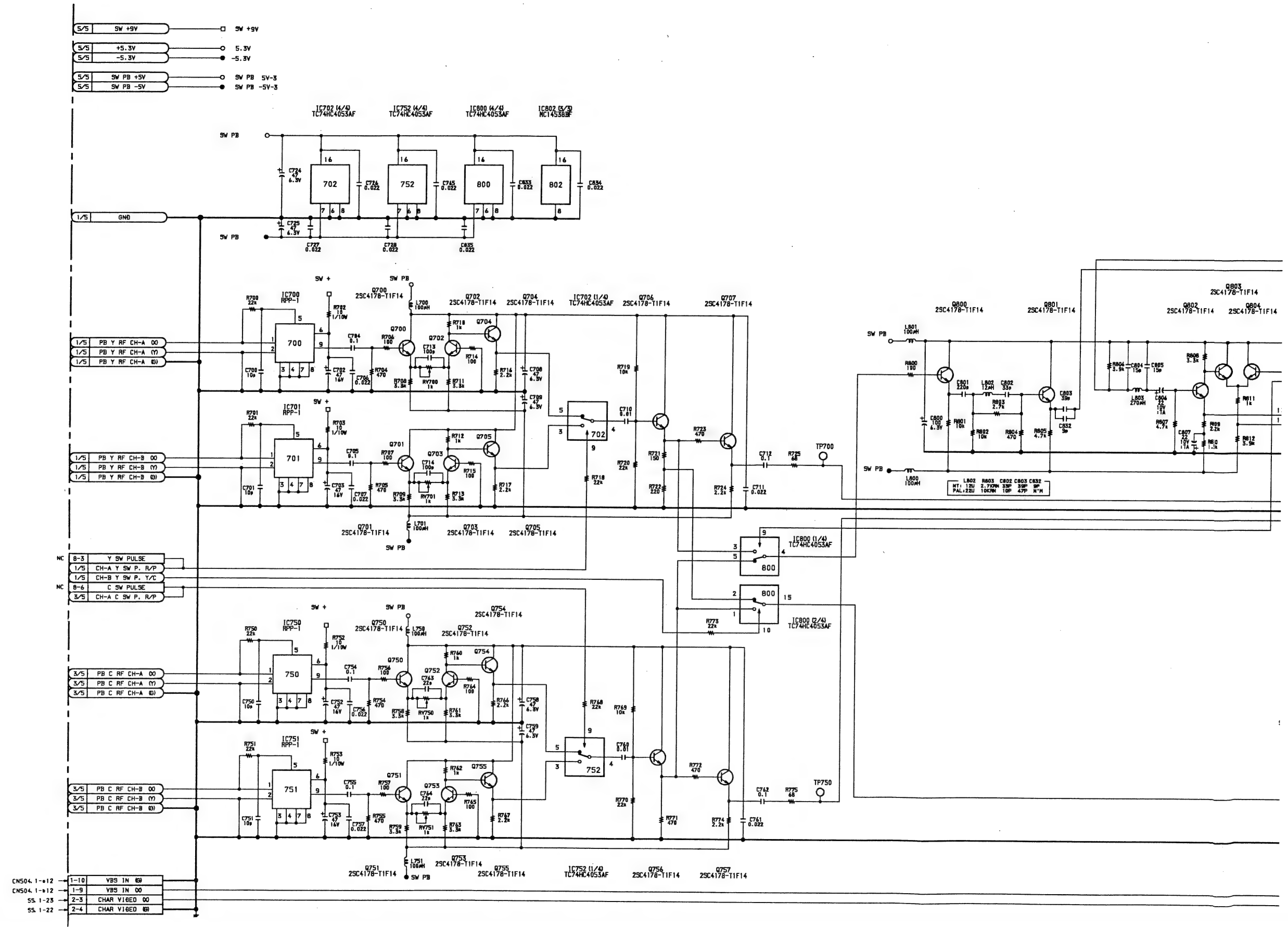
VO-34P (4/5) S/N 11421 and higher



REC mode.....Record the 100 % color bars signal.  
PB mode.....Play back the color bars signal portion  
of the alignment tape CR5-1B PS.

Y Modulator  
Y REC Amplifier

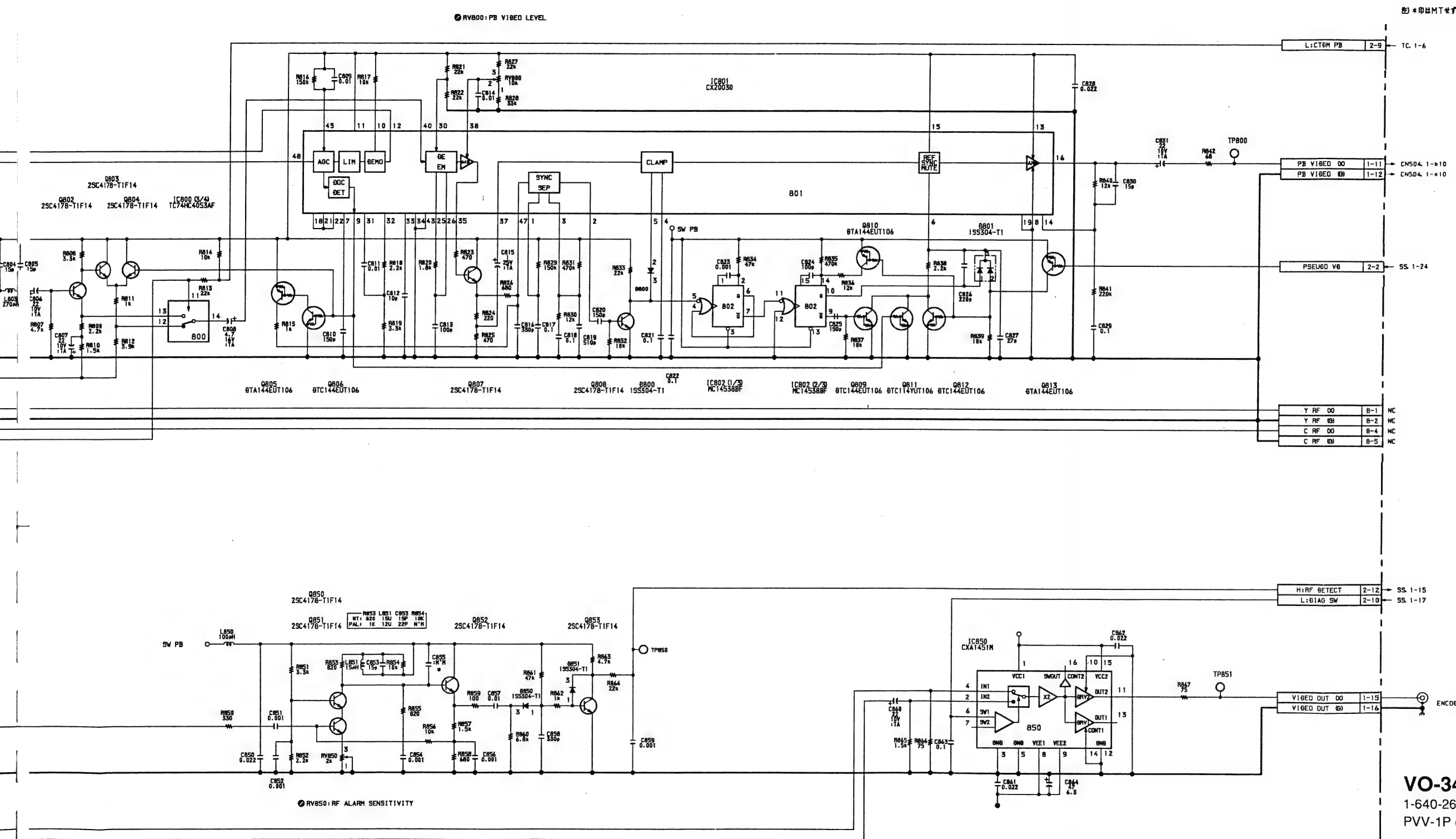
S/N 11421 and higher



11 - 9 (c)

11 - 9 (c)  
H





1

2

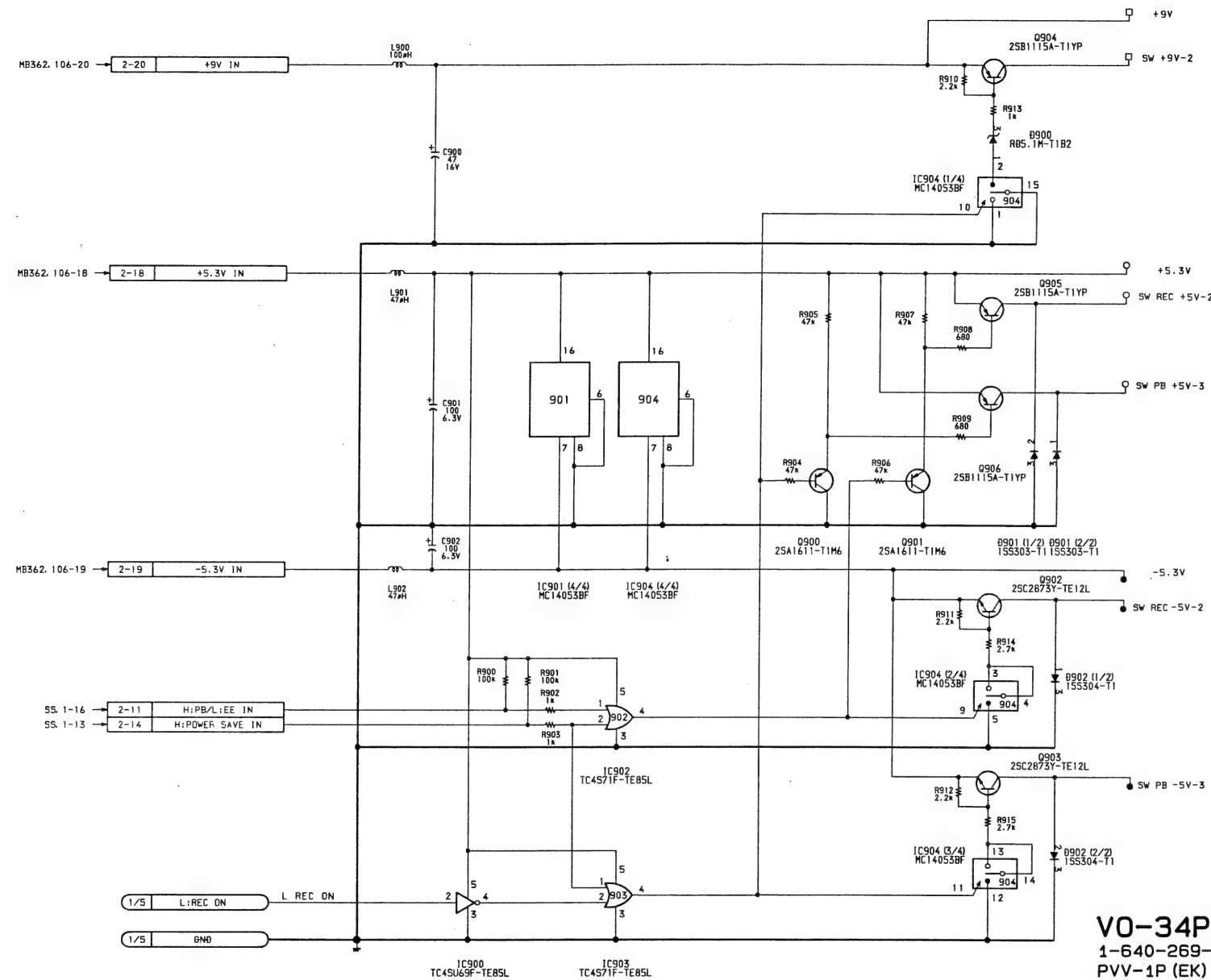
3

4

5

**VO-34P BOARD (5/5)**  
 Video REC/PB SW

S/N 10001 through 10100

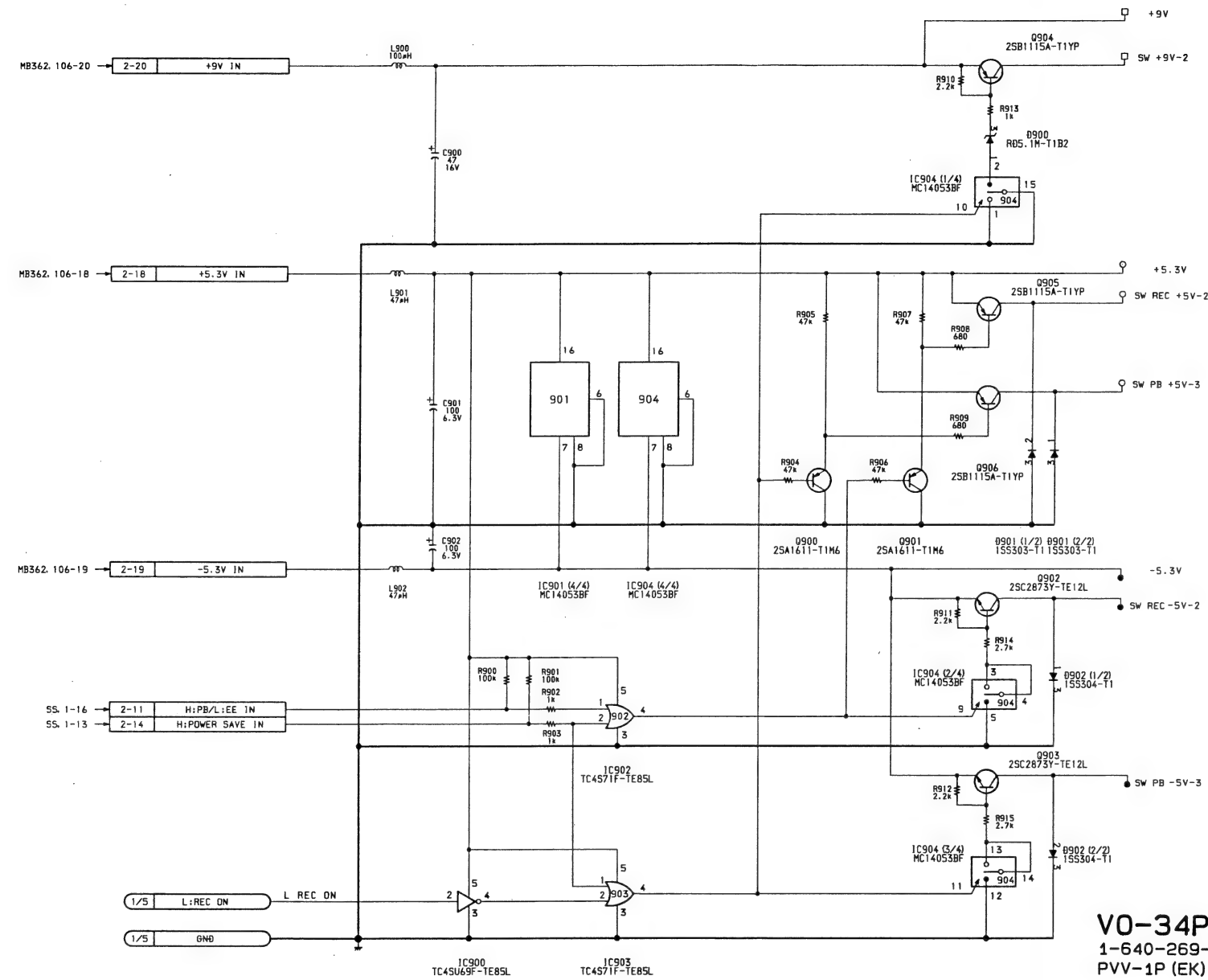


11-11 (a)

11-11 (a)

VO-34P BOARD (5/5)  
Video REC/PB SW

S/N 10101 through 11420



VO-34P BOARD (5/5)  
1-640-269-13  
PVV-1P (EK) ; #10101-11420

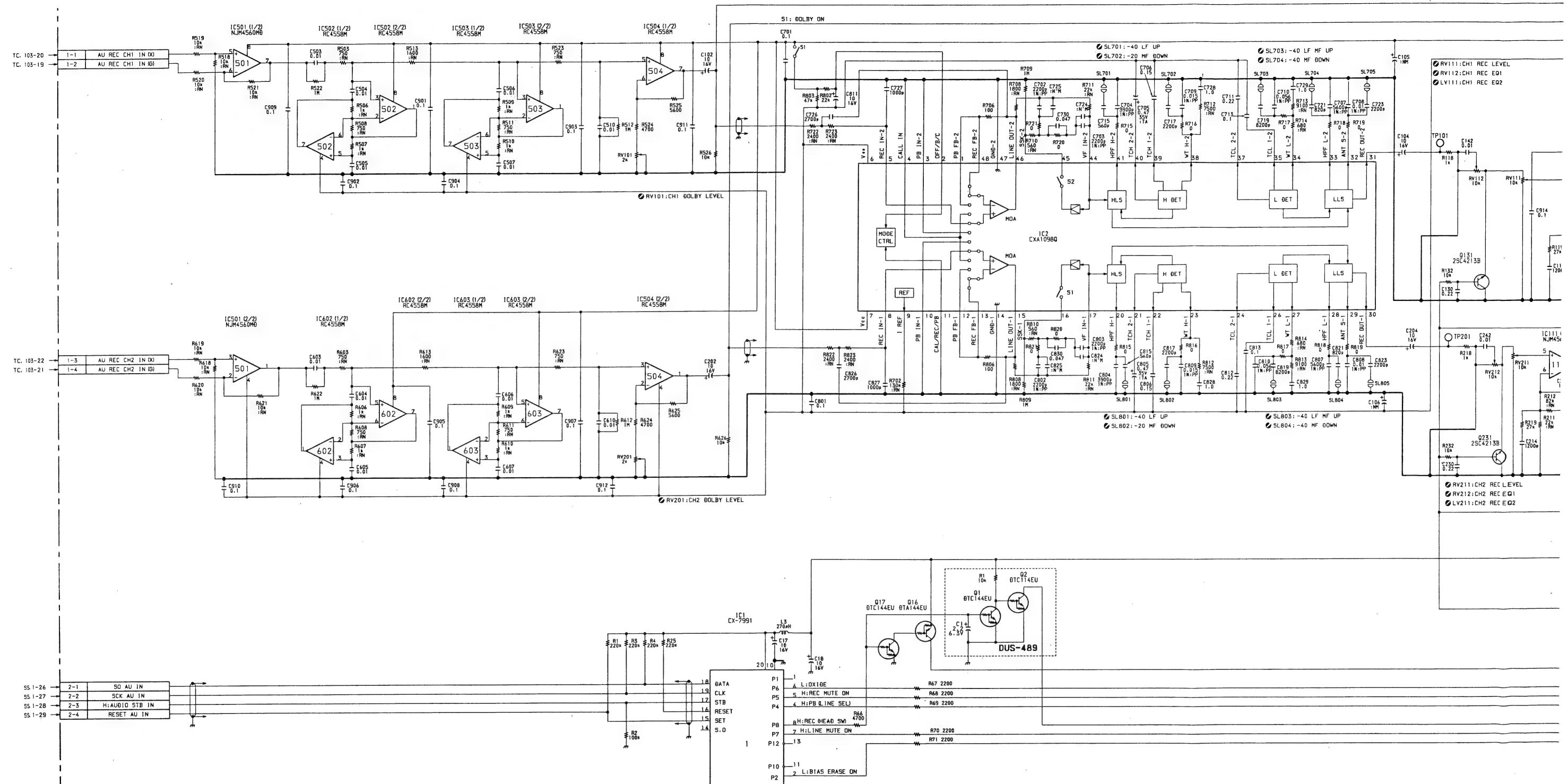
11-11 (b)

11-11 (b)  
H

AU-144P BOARD

S/N 10001 through 10500

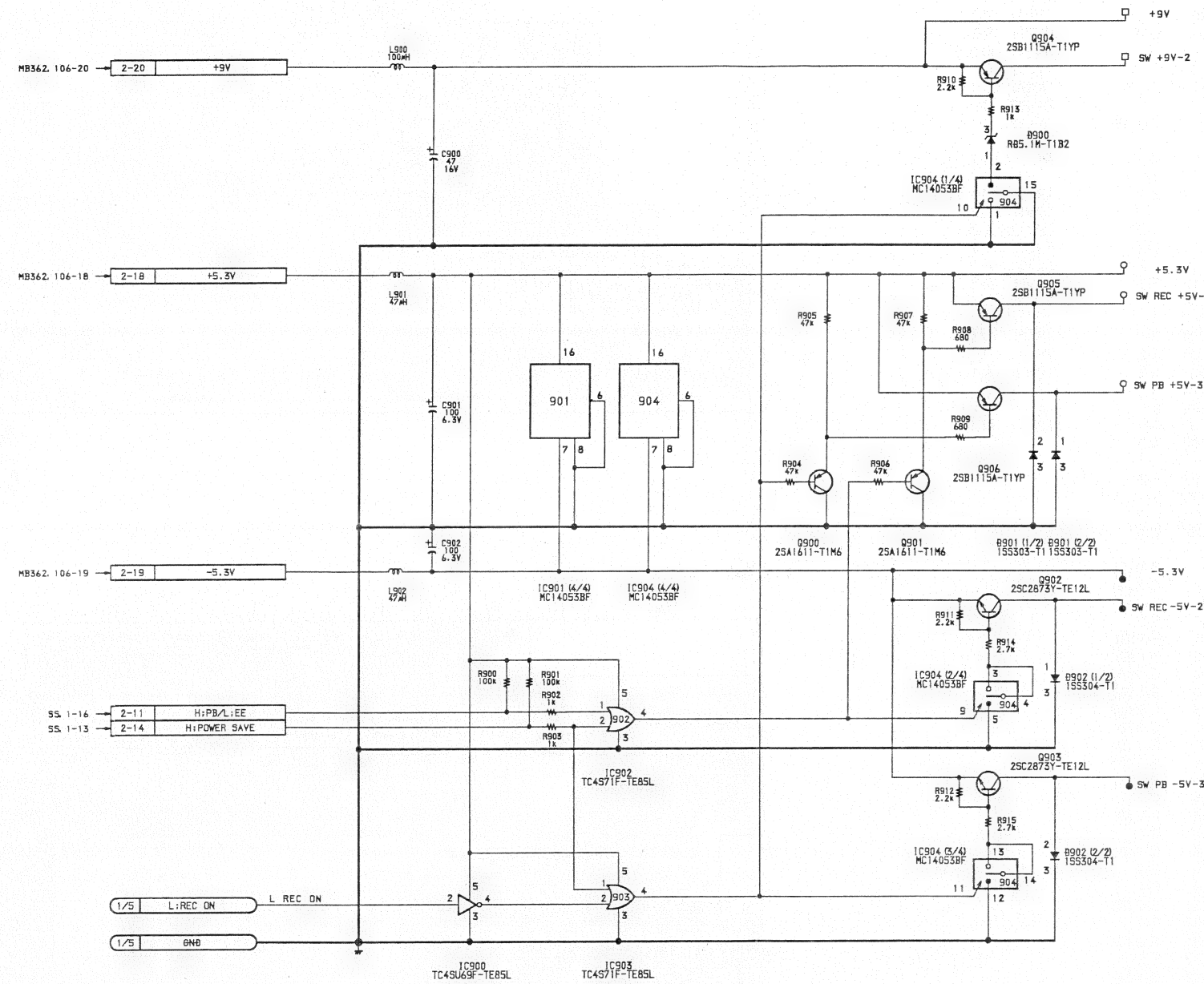
Audio REC/PB Amplifier  
Bias/Erase Oscillator



VO-34P BOARD (5/5)

Y Modulator  
Y REC Amplifier

S/N 11421 and higher

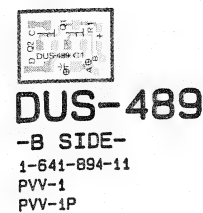


VO-34P BOARD (5/5)

1-640-269-14, 15  
PVV-1P (EK) ; #11421-

# DUS-489 BOARD

B Side



AU-144/P (1-640-271-11)

CN1	A-2	RV101	B-2
CN2	G-2	RV111	F-2
CN3	E-1	RV112	F-2
CN4	B-1	RV113	F-2
CN5	G-1	RV201	B-2
CN6	D-1	RV211	F-2
		RV212	G-2
CV131	F-1	RV302	C-1
CV231	F-1	RV303	C-1
		RV402	C-1
		RV403	C-1
D1	D-1 (B)		
E1	G-1	S1	B-2
E2	E-1		
E3	E-1	TP2	G-1
		TP101	E-2
		TP102	F-2
		TP201	E-2
		TP202	F-1
IC1	G-2	TP301	D-1
IC2	C-2	TP302	D-1
IC111	F-2	TP303	A-1
IC112	F-2	TP401	D-1
IC301	C-1	TP402	D-1
IC302	C-1	TP403	A-1
IC303	B-1		
IC501	A-2		
IC502	A-2		
IC503	B-2		
IC504	A-2	T1	F-1
IC602	A-2	T2	G-1
IC603	A-2		
LV111	F-2		
LV131	F-1		
LV211	G-2		
LV231	G-1		
Q1	G-2 (B)		
Q2	G-2 (B)		
Q3	D-1		
Q4	E-1		
Q5	F-1 (B)		
Q12	F-1 (B)		
Q14	G-1 (B)		
Q15	G-1 (B)		
Q16	G-2 (B)		
Q17	G-2 (B)		
Q50	G-1 (B)		
Q51	G-1 (B)		
Q54	B-1 (B)		
Q55	C-1		
Q56	D-1 (B)		
Q57	B-1		
Q58	C-1 (B)		
Q59	E-1		
Q60	F-1		
Q131	G-2 (B)		
Q132	F-1		
Q231	G-2 (B)		
Q232	F-2		
Q302	B-1 (B)		
Q305	E-1 (B)		
Q306	D-1 (B)		
Q307	D-1 (B)		
Q402	C-1 (B)		
Q405	D-1 (B)		
Q406	D-1 (B)		
Q407	D-1 (B)		

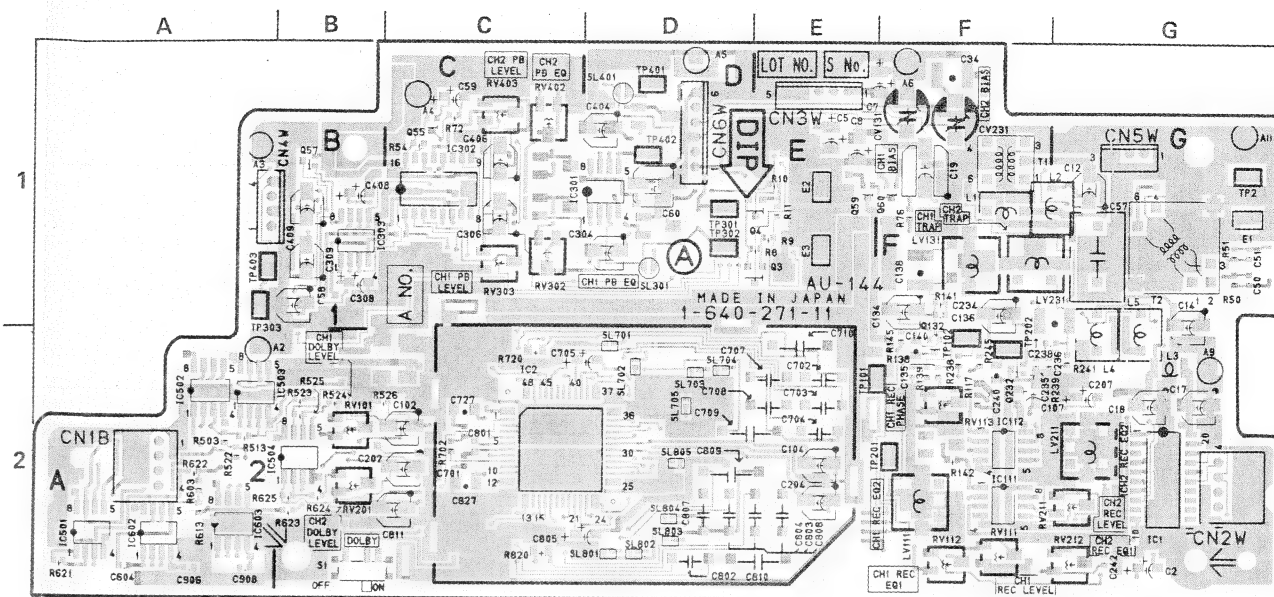
NOTE  
\*-\* ; \*-\*A SIDE  
\*-(B); \*-\*B SIDE

AU-144P BOARD

Audio REC/PB

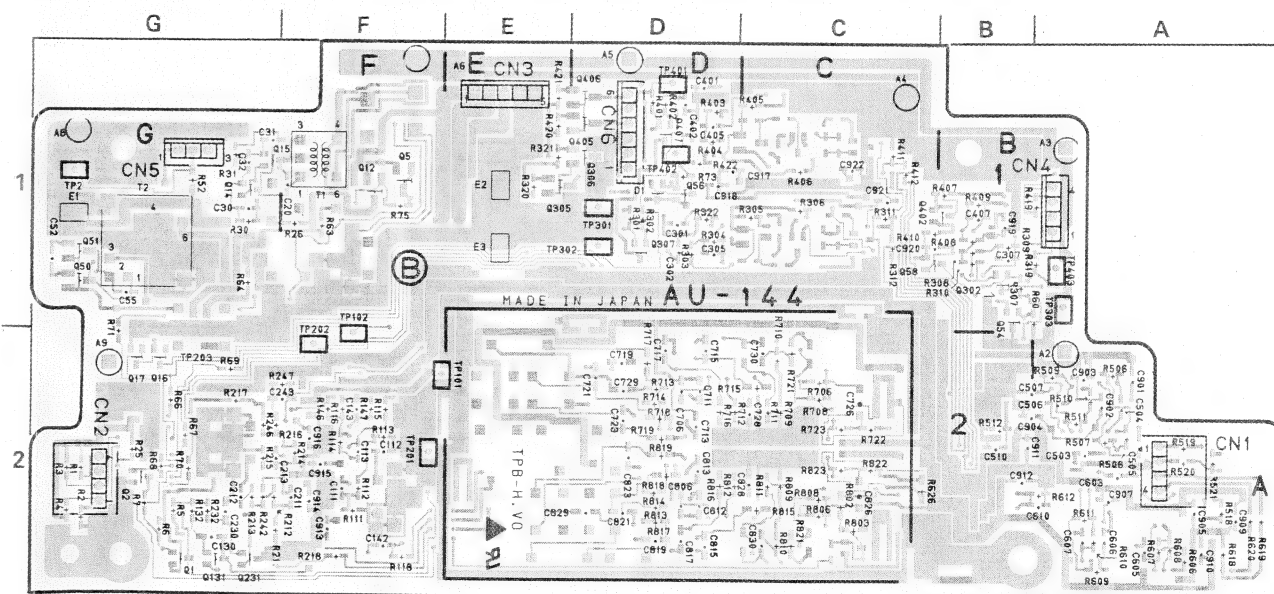
S/N 10001 through 10500

A Side



**AU-144/P -A SIDE-**  
1-640-271-11  
PVV-1-----AU-144  
PVV-1P-----AU-144P

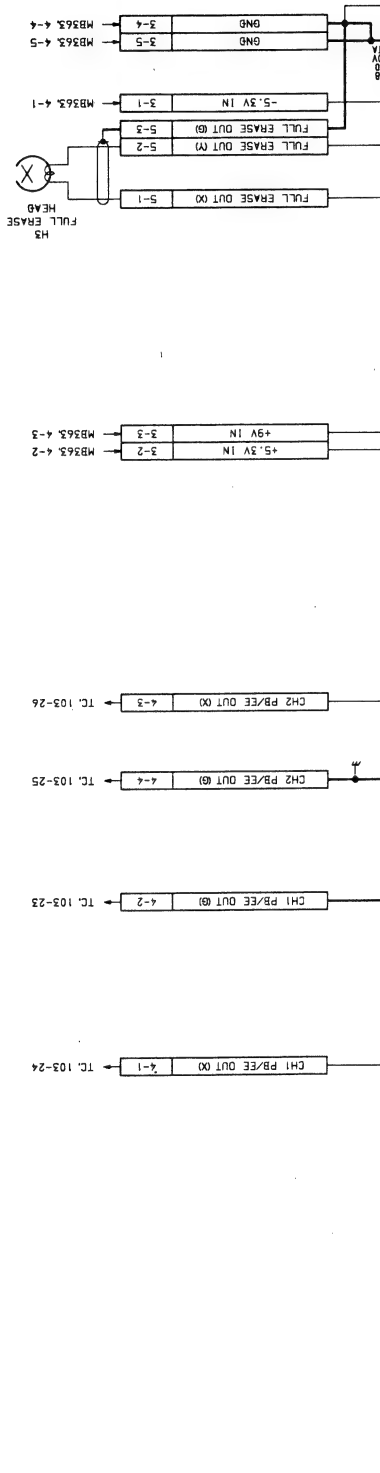
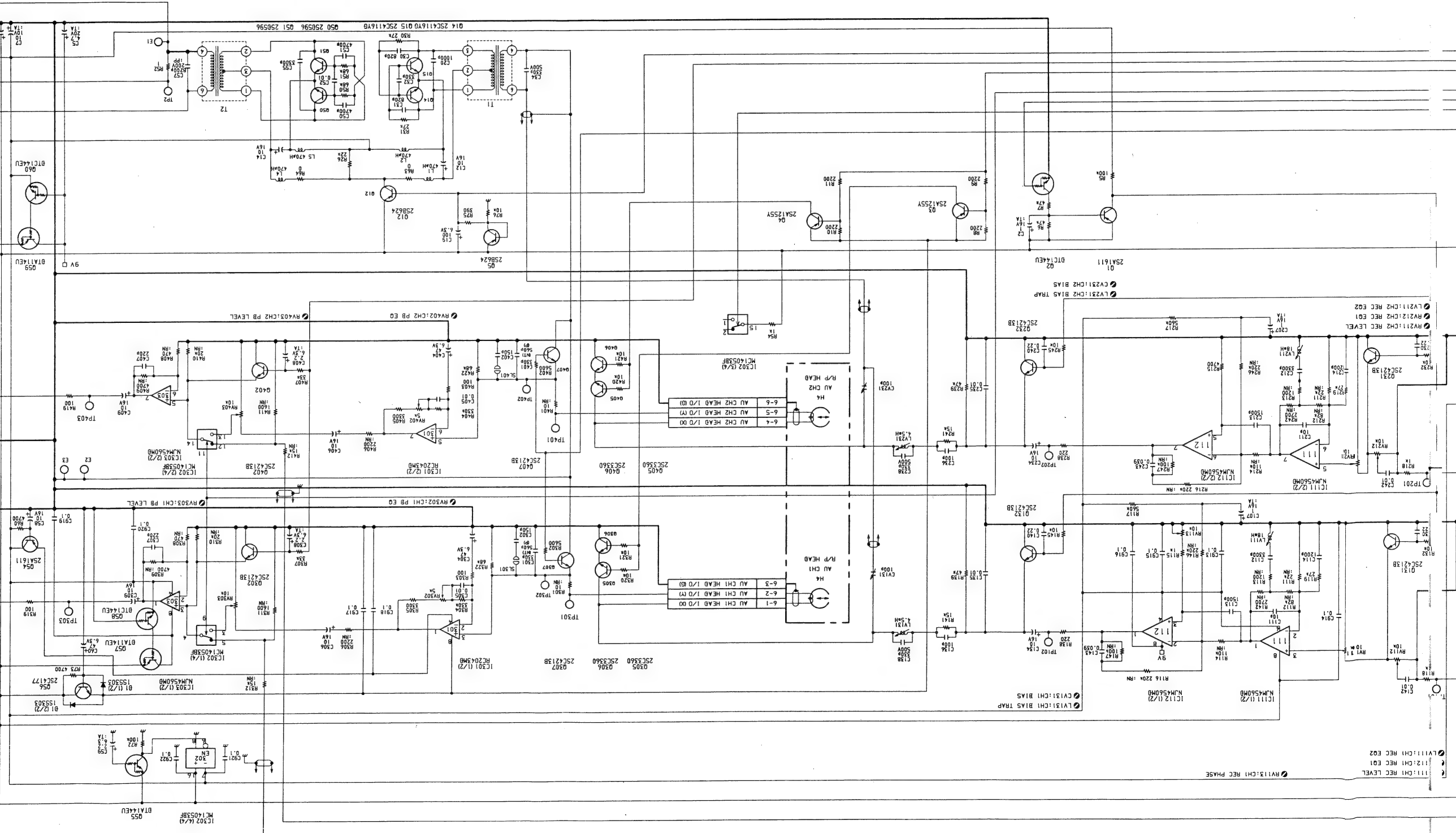
B Side



**AU-144/P -B SIDE-**  
1-640-271-11  
PVV-1-----AU-144  
PVV-1P-----AU-144P



# AU-144P



AU-144P BOARD  
1-640-271-11  
PVP-1P (EK) : #10001-10500

11-13(a)

11-13(a)

11-13(a)



DUS-489 BOARD

B Side



DUS-489

-B SIDE-  
1-641-894-11  
PVV-1  
PVV-1P

AU-144P (1-640-271-12)

CN1	A-2	Q402	C-1 (B)
CN2	G-2	Q405	D-1 (B)
CN3	E-1	Q406	D-1 (B)
CN4	B-1	Q407	D-1 (B)
CN5	G-1		
CN6	D-1	RV101	B-2
CN7	D-1	RV111	F-2
CN8	D-1	RV112	F-2
		RV113	F-2
		RV201	B-2
		RV211	F-2
		RV212	G-2
CV131	F-1	RV302	C-1
CV231	F-1	RV303	C-1
		RV402	C-1
		RV403	C-1
D1	C-1 (B)	S1	B-2
E1	G-1		
E2	E-1		
E3	E-1		
IC1	G-2		
IC2	C-2	TP2	G-1
IC111	F-2	TP101	E-2
IC112	F-2	TP102	F-2
IC301	D-1	TP201	F-2
IC302	C-1	TP202	F-2
IC303	B-1	TP301	D-1
IC501	A-2	TP302	D-1
IC502	A-2	TP303	A-2
IC503	B-2	TP401	D-1
IC504	A-2	TP402	D-1
IC602	A-2	TP403	A-1
IC603	A-2		
		T1	F-1
		T2	G-1
LV111	F-2		
LV131	F-1		
LV211	G-2		
LV231	F-1		
Q1	G-2 (B)		
Q2	G-2 (B)		
Q3	E-1		
Q4	D-1		
Q5	F-1 (B)		
Q6	G-2 (B)		
Q7	G-2 (B)		
Q12	F-1 (B)		
Q14	G-1 (B)		
Q15	F-1 (B)		
Q16	G-2 (B)		
Q17	G-2 (B)		
Q50	G-1 (B)		
Q51	G-1 (B)		
Q54	B-2 (B)		
Q55	C-1		
Q56	C-1 (B)		
Q57	B-1		
Q58	C-1 (B)		
Q59	E-1		
Q60	F-1		
Q131	G-2 (B)		
Q132	F-1		
Q231	G-2 (B)		
Q232	F-2		
Q302	B-1 (B)		
Q305	D-1 (B)		
Q306	D-1 (B)		
Q307	D-1 (B)		

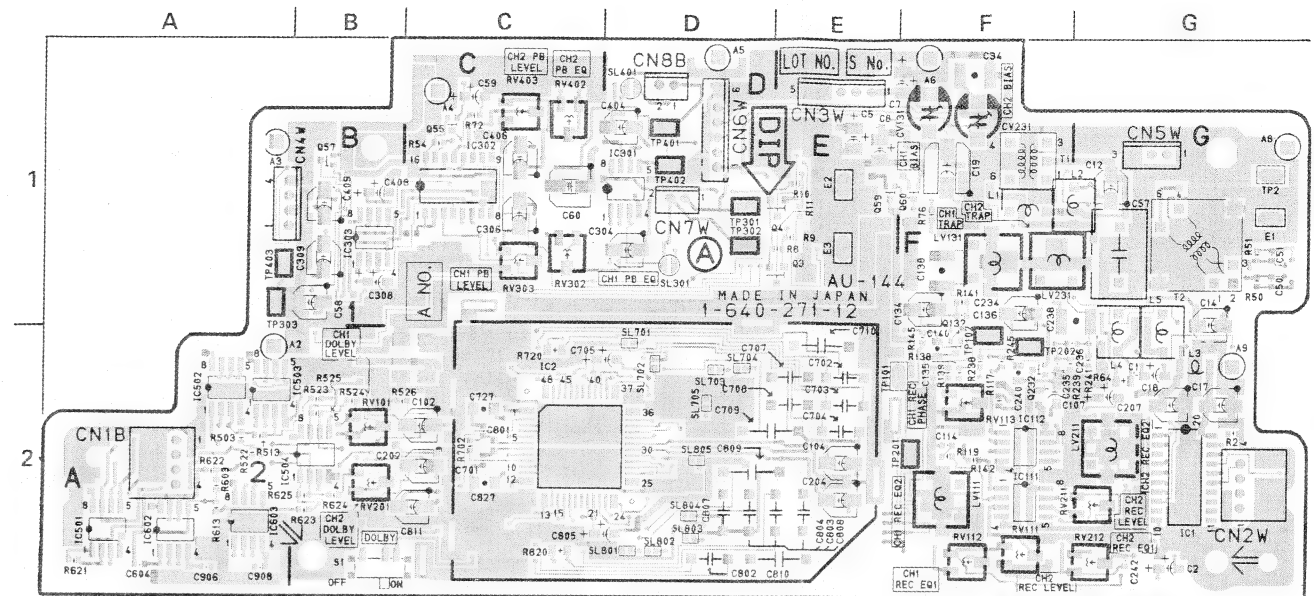
NOTE  
\* : \*\*A SIDE  
\*(B) : \*\*B SIDE

AU-144P BOARD

Audio REC/PB

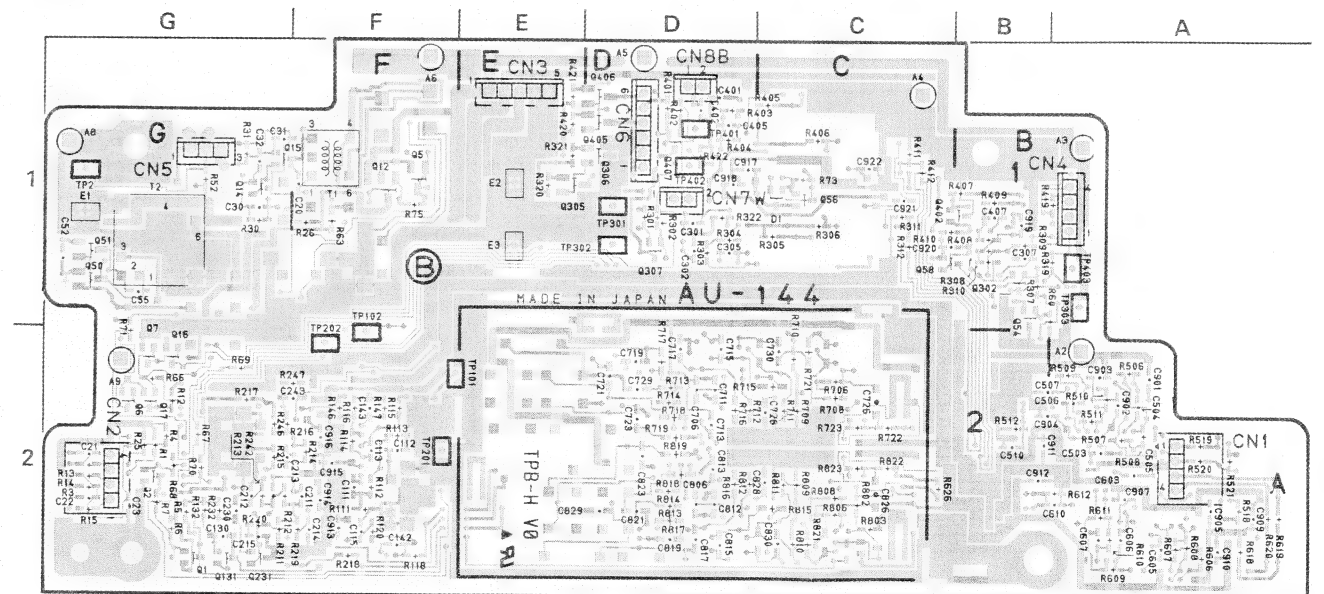
S/N 10501 through 11420

A Side



AU-144P -A SIDE-  
1-640-271-12  
PVV-1P

B Side

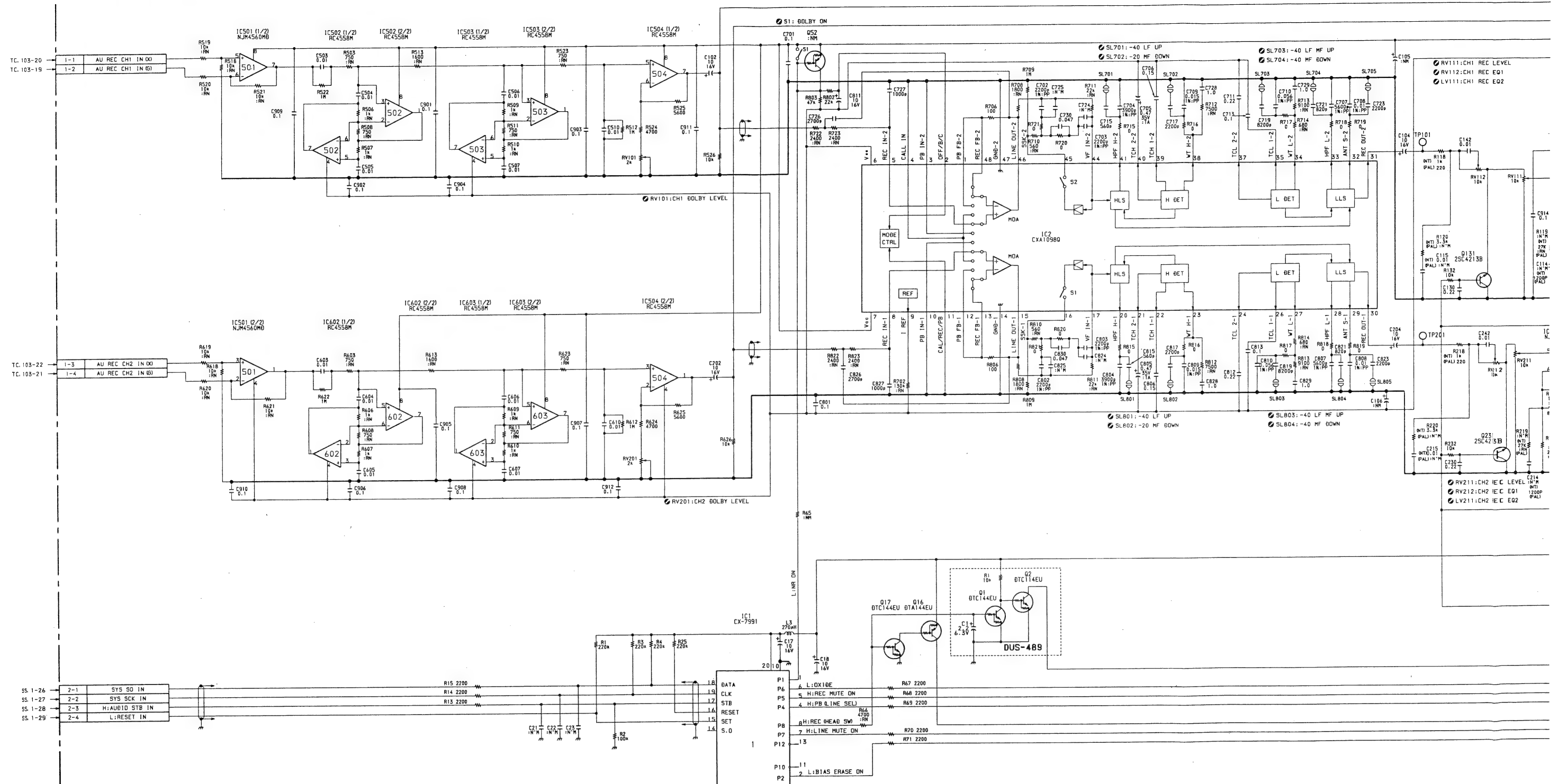


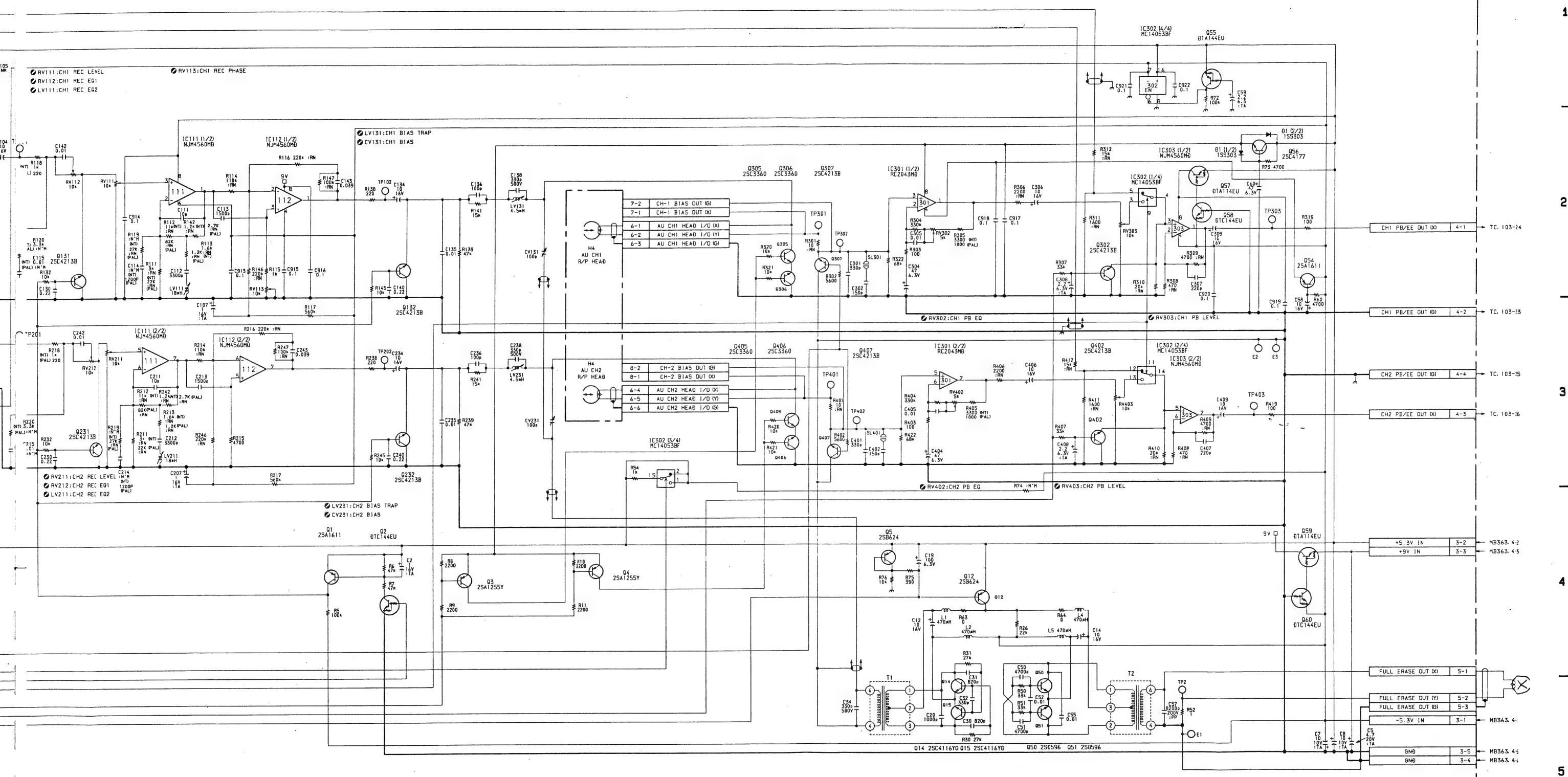
AU-144P -B SIDE-  
1-640-271-12  
PVV-1P

AU-144P BOARD

S/N 10501 through 11420

Audio REC/PB Amplifier  
Bias/Erase Oscillator





**AU-144P BOARD**  
1-640-271-12  
PVV-1P (EK) ; #10501-11420

**AU-144P BOARD**  
Audio REC/PB

S/N 11421 through 11740

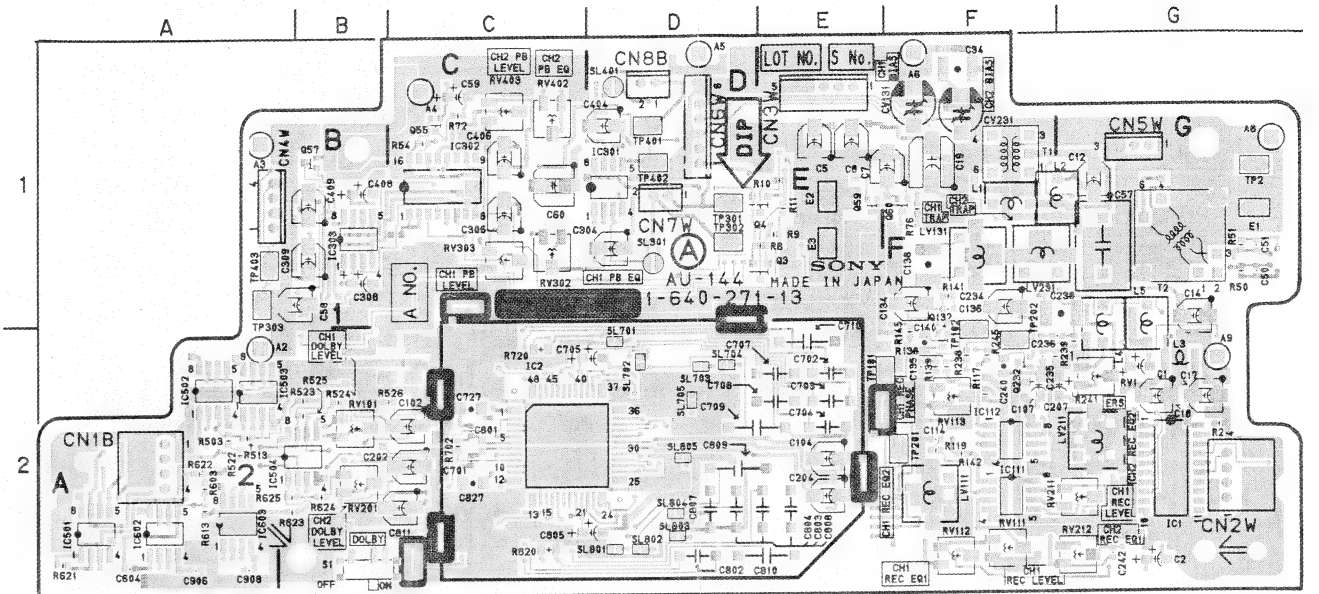
A Side

AU-144P (1-640-271-13)

CN1	A-2	RV1	G-2
CN2	G-2	RV101	B-2
CN3	E-1	RV111	F-2
CN4	B-1	RV112	F-2
CN5	G-1	RV113	F-2
CN6	D-1	RV201	B-2
		RV211	F-2
CV131	F-1	RV212	G-2
CV231	F-1	RV302	C-1
		RV303	C-1
		RV402	C-1
		RV403	C-1
D1	C-1 (B)	S1	B-2
E1	G-1		
E2	E-1		
E3	E-1		
IC1	G-2	TP2	G-1
IC2	C-2	TP101	E-2
IC111	F-2	TP102	F-2
IC112	F-2	TP201	F-2
IC301	D-1	TP202	F-2
IC302	C-1	TP301	D-1
IC303	B-1	TP302	D-1
IC501	A-2	TP303	A-2
IC502	A-2	TP401	D-1
IC503	B-2	TP402	D-1
IC504	A-2	TP403	A-1
IC602	A-2		
IC603	A-2	T1	F-1
		T2	G-1
LV111	F-2		
LV131	F-1		
LV211	G-2		
LV231	F-1		

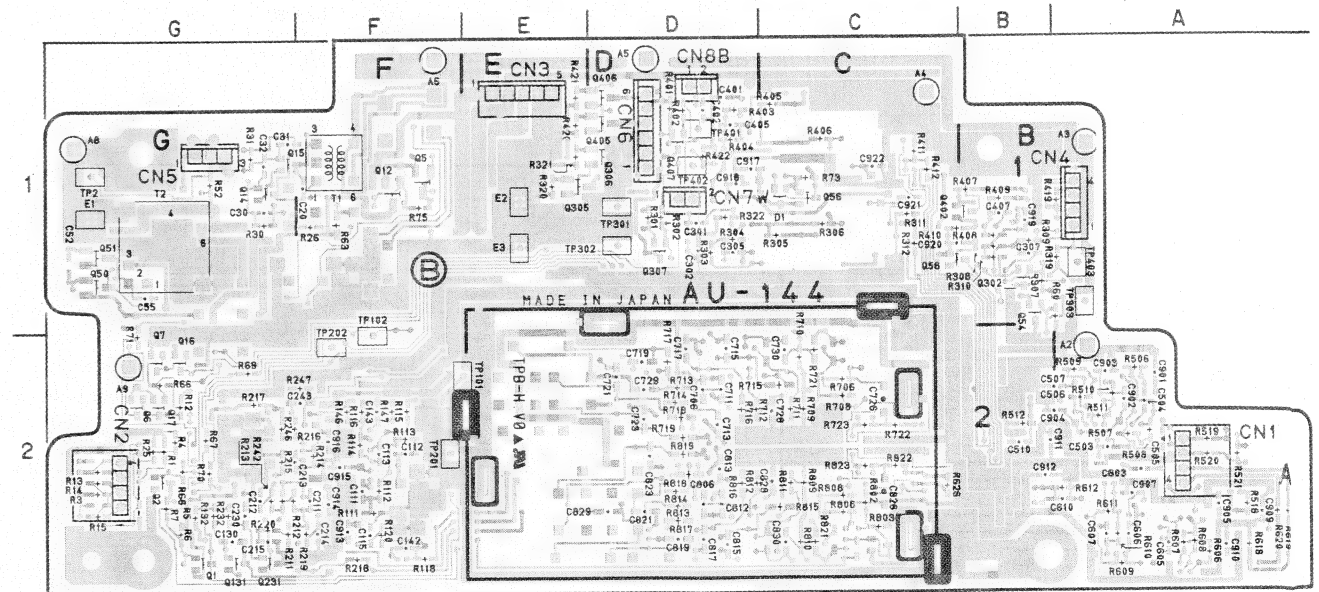
Q1	G-2 (B)
Q2	G-1 (B)
Q3	E-1
Q4	D-1
Q5	F-1 (B)
Q12	F-1 (B)
Q14	G-1 (B)
Q15	F-1 (B)
Q16	G-2 (B)
Q17	G-2 (B)
Q50	G-1 (B)
Q51	G-1 (B)
Q54	B-2 (B)
Q55	C-1
Q56	C-1 (B)
Q57	B-1
Q58	C-1 (B)
Q59	E-1
Q60	F-1
Q131	G-2 (B)
Q132	F-1
Q231	G-2 (B)
Q232	F-2
Q302	B-1 (B)
Q305	D-1 (B)
Q306	D-1 (B)
Q307	D-1 (B)
Q402	C-1 (B)
Q405	D-1 (B)
Q406	D-1 (B)
Q407	D-1 (B)

NOTE  
\* : A SIDE  
\* (B) : B SIDE



**AU-144P -A SIDE-**  
1-640-271-13  
PVV-1P

B Side



**AU-144P -B SIDE-**  
1-640-271-13  
PVV-1P



**AU-144P BOARD**

Audio REC/PB.

S/N 11741 and higher
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A Side

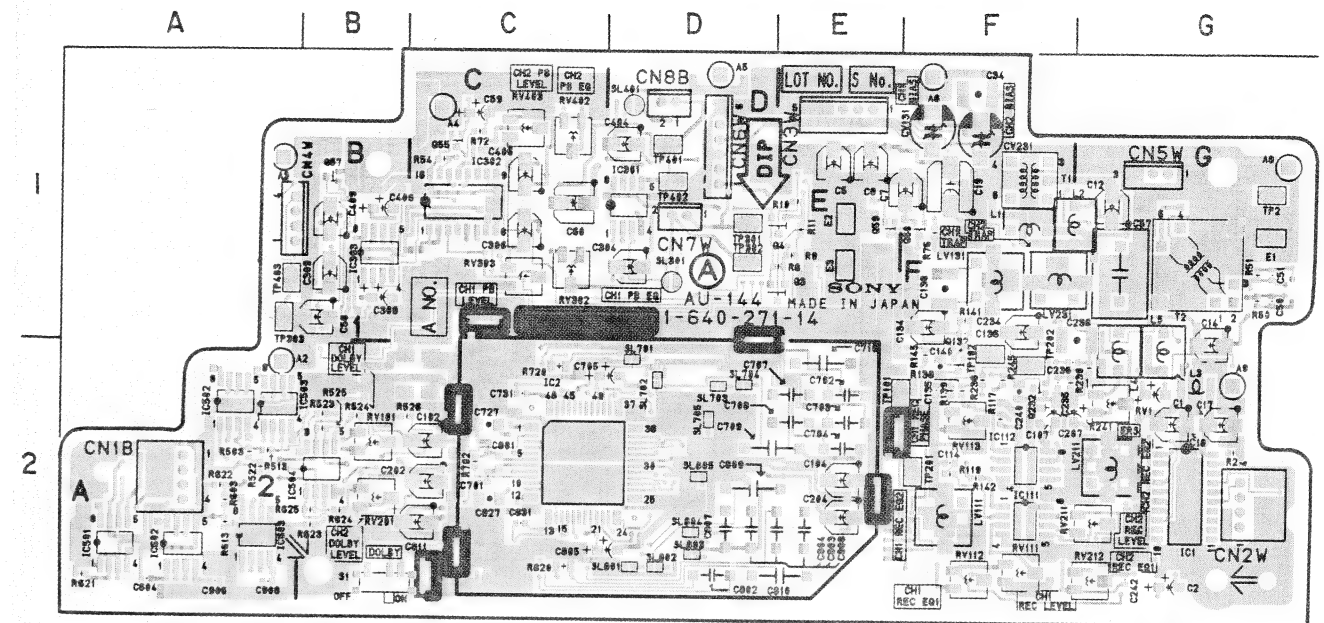
AU-144P (1-640-271-14)

CN1	A-2	RV101	B-2
CN2	G-2	RV111	F-2
CN3	E-1	RV112	F-2
CN4	B-1	RV113	F-2
CN5	G-1	RV201	B-2
CN6	D-1	RV211	F-2
		RV212	G-2
CV131	F-1	RV302	C-1
CV231	F-1	RV303	C-1
		RV402	C-1
D1	C-1 (B)	RV403	C-1
E1	G-1	S1	B-2
E2	E-1		
E3	E-1	TP2	G-1
		TP101	E-2
IC1	G-2	TP102	F-2
IC2	C-2	TP201	F-2
IC111	F-2	TP202	F-2
IC112	F-2	TP301	D-1
IC301	D-1	TP302	D-1
IC302	C-1	TP303	A-2
IC303	B-1	TP401	D-1
IC501	A-2	TP402	D-1
IC502	A-2	TP403	A-1
IC503	B-2		
IC504	A-2	T1	F-1
IC602	A-2	T2	G-1
IC603	A-2		

LV111	F-2
LV131	F-1
LV211	G-2
LV231	F-1

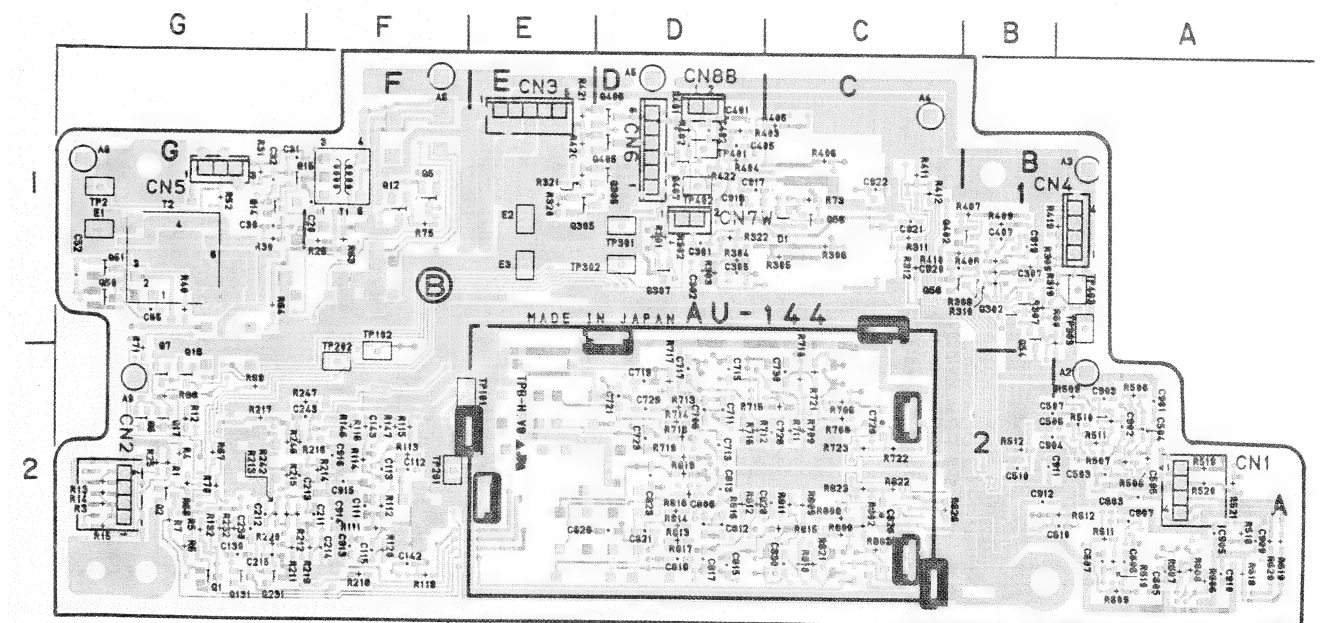
Q1	G-2 (B)
Q2	G-1 (B)
Q3	E-1
Q4	D-1
Q5	F-1 (B)
Q12	F-1 (B)
Q14	G-1 (B)
Q15	F-1 (B)
Q16	G-2 (B)
Q17	G-2 (B)
Q50	G-1 (B)
Q51	G-1 (B)
Q54	B-2 (B)
Q55	C-1
Q56	C-1 (B)
Q57	B-1
Q58	C-1 (B)
Q59	E-1
Q60	F-1
Q131	G-2 (B)
Q132	F-1
Q231	G-2 (B)
Q232	F-2
Q302	B-1 (B)
Q305	D-1 (B)
Q306	D-1 (B)
Q307	D-1 (B)
Q402	C-1 (B)
Q405	D-1 (B)
Q406	D-1 (B)
Q407	D-1 (B)

NOTE  
\*- \* ; \*- \* A SIDE  
\*- \* (B); \*- \* B SIDE



**AU-144P** -A SIDE-  
1-640-271-14  
PVV-1P

B Side

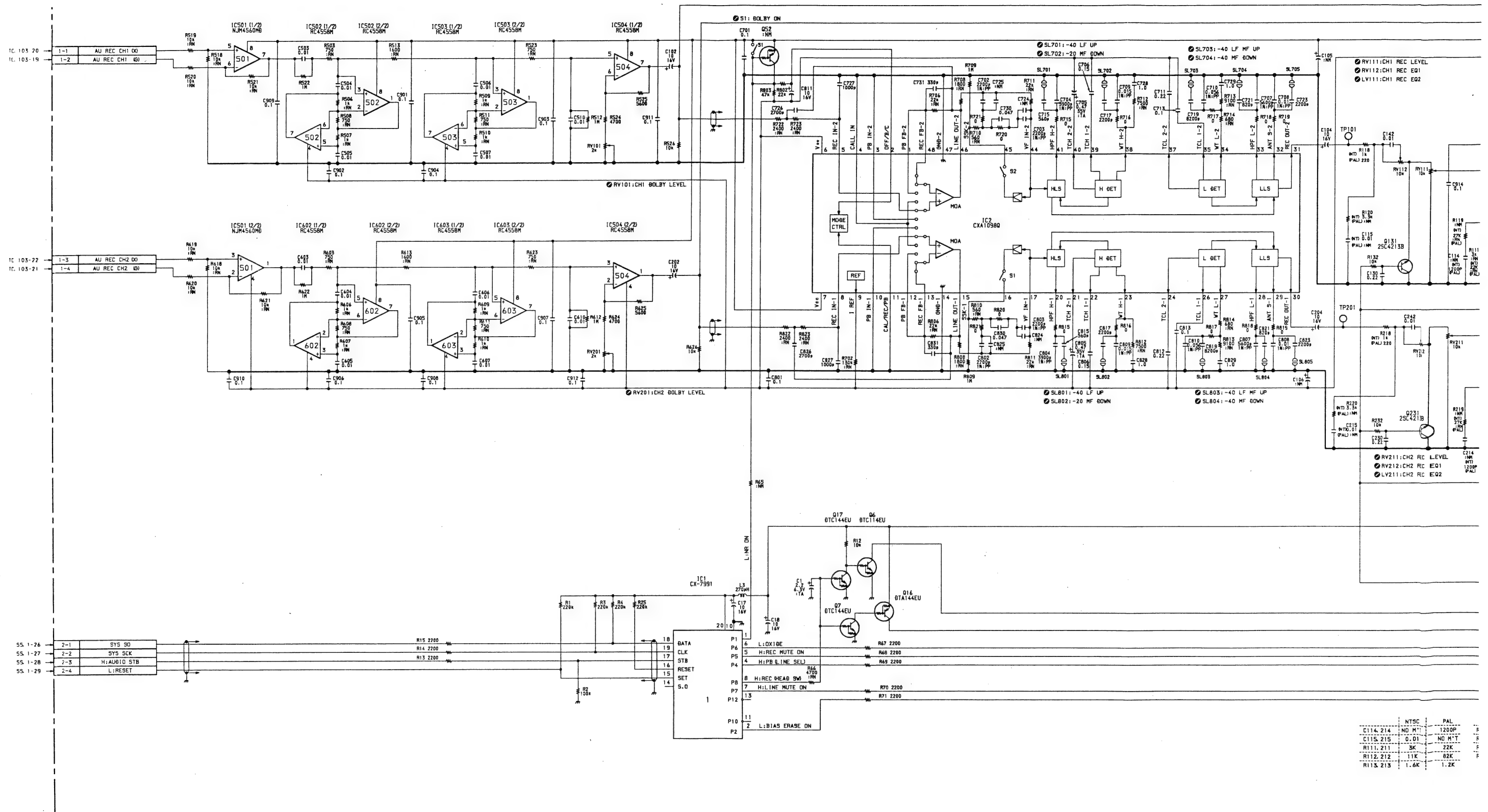


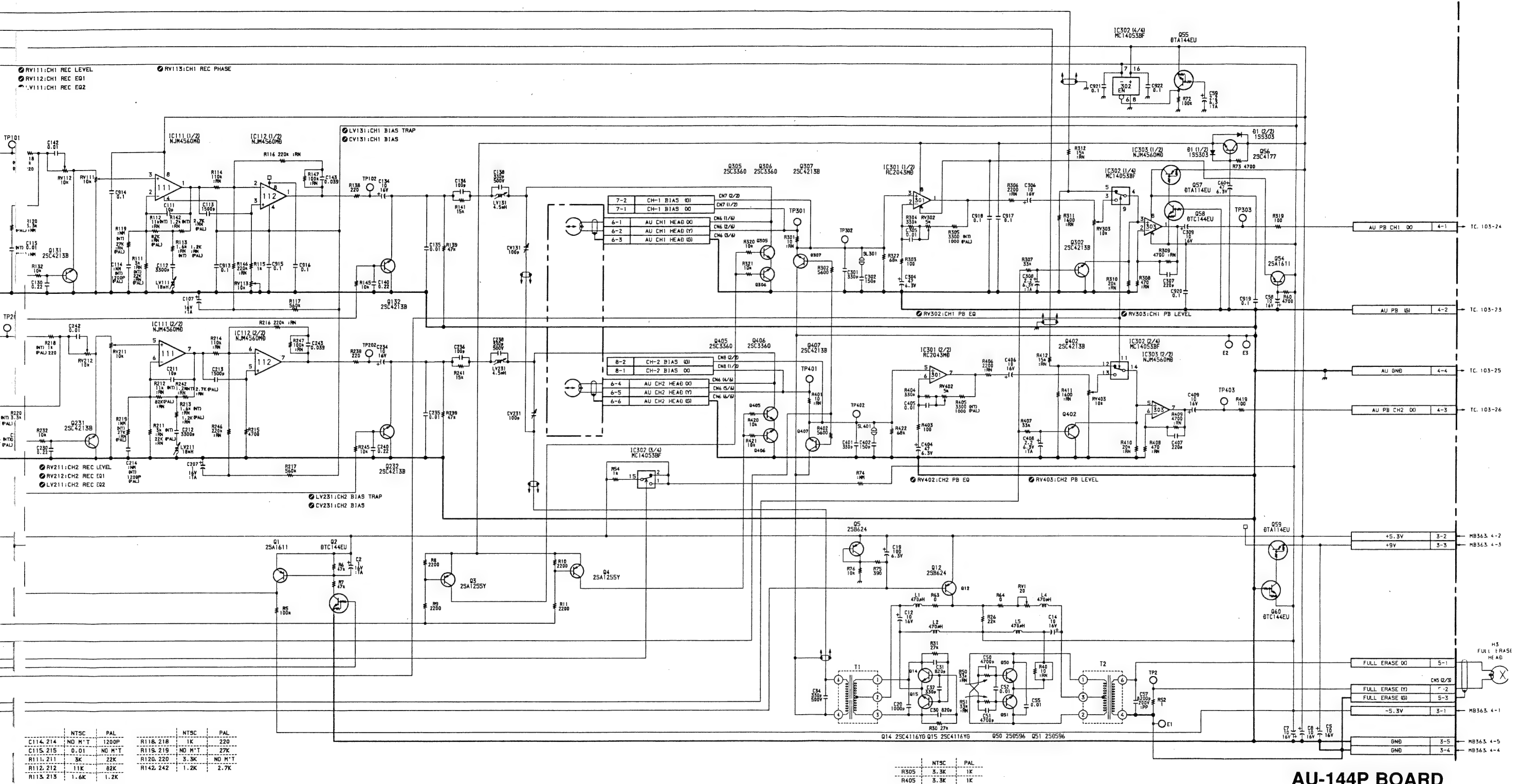
**AU-144P** -B SIDE-  
1-640-271-14  
PVV-1P

AU-144P BOARD

Audio REC/PB Amplifier  
Bias/Erase Oscillator

S/N 11421 and higher





# AU-144P BOARD

1-640-271-13, 14

PVV-1P (EK) ; #11421-



TC-60P BOARD

Audio Line/Meter Amp  
Time Code

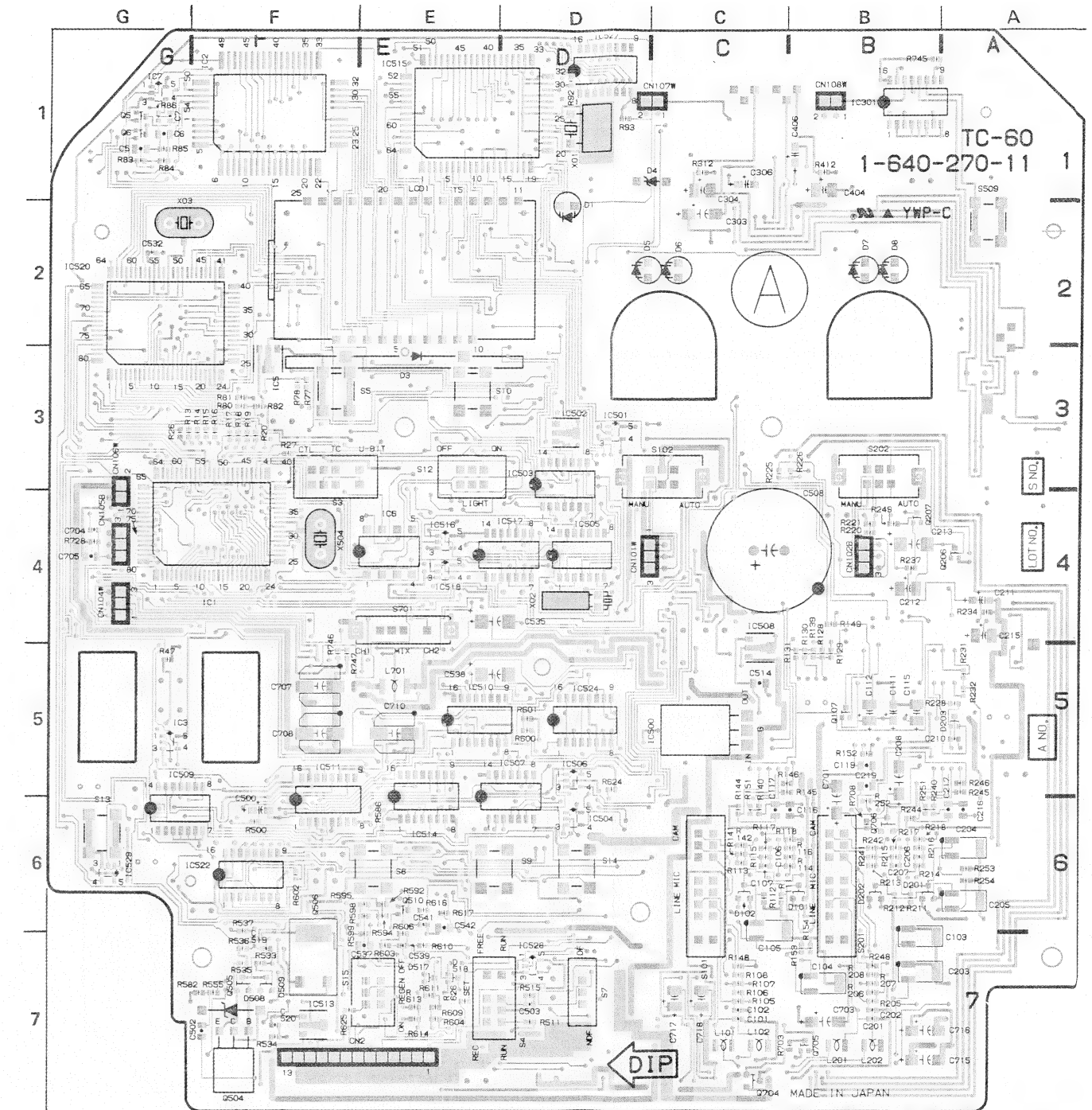
S/N 10001 through 10100

TC-60/P (1-640-270-11)

CN1	C-7 (B)	IC202	A-6 (B)	Q506	F-6
CN2	E-7 (B)	IC205	A-5 (B)	Q507	F-7 (B)
CN101	C-4 (B)	IC301	B-1	Q508	D-4 (B)
CN102	B-4 (B)	IC303	A-3 (B)	Q510	E-6
CN103	B-7 (B)	IC304	C-2 (B)	Q511	D-5 (B)
CN104	G-4 (B)	IC500	C-5	Q512	C-5 (B)
CN105	G-4 (B)	IC501	D-3	Q702	F-5 (B)
CN106	G-3 (B)	IC502	D-3	Q703	B-7 (B)
CN107	C-1 (B)	IC503	D-3	Q704	C-7
CN108	B-1 (B)	IC504	D-6	Q705	B-7
		IC505	D-4	Q706	B-6
		IC506	D-5		
D1	D-2	IC507	D-5	RV1	F-7 (B)
D2	E-5 (B)	IC508	C-4	RV302	C-1 (B)
D3	E-3	IC509	G-6	RV402	B-1 (B)
D4	C-1	IC510	E-5	RV700	F-3 (B)
D5	D-2	IC511	F-5	RV701	E-5 (B)
D6	C-2	IC512	F-7 (B)	RV704	A-2 (B)
D7	B-2	IC513	F-7		
D8	B-2	IC514	E-6	S3	F-4
D101	B-6	IC515	E-1	S4	D-7
D102	C-6	IC516	E-4	S5	E-3
D103	B-4 (B)	IC517	D-4	S7	D-7
D201	B-6	IC518	E-4	S8	E-6
D202	B-6	IC519	E-2 (B)	S9	D-6
D203	A-5	IC520	G-2	S10	D-3
D301	C-2 (B)	IC521	E-5 (B)	S12	E-3
D501	D-3 (B)	IC522	F-6	S13	G-6
D502	C-5 (B)	IC523	E-7 (B)	S14	D-6
D503	C-5 (B)	IC524	D-5	S15	E-7
D504	C-5 (B)	IC525	E-7 (B)	S16	G-6 (B)
D505	C-5 (B)	IC526	D-5 (B)	S17	G-6 (B)
D506	F-5 (B)	IC527	D-1	S101	C-7
D507	D-4 (B)	IC528	D-7	S102	C-3
D508	F-7	IC529	G-6	S103	B-5 (B)
D509	F-7	IC702	F-5 (B)	S201	B-7
D510	F-6 (B)	IC703	E-5 (B)	S202	B-3
D511	F-6 (B)			S203	A-5 (B)
D512	F-7 (B)	LCD1	E-2	S509	A-2
D513	D-4 (B)			S701	E-4
D514	D-4 (B)				
D515	D-4 (B)	Q2	D-5 (B)	TP1	C-5 (B)
D516	D-5 (B)	Q3	D-2 (B)	TP2	C-4 (B)
D517	E-7	Q4	C-2 (B)	TP3	F-6 (B)
D518	E-7	Q5	G-1	TP4	D-4 (B)
D701	B-7 (B)	Q6	G-1	TP5	F-6 (B)
D702	B-5 (B)	Q101	B-7 (B)	TP6	F-6 (B)
D704	C-7 (B)	Q102	C-3 (B)	TP7	C-4 (B)
		Q103	B-4 (B)	TP8	G-5 (B)
		Q104	B-4 (B)	TP9	F-3 (B)
		Q105	B-5 (B)	TP10	G-5 (B)
		Q106	B-4 (B)	TP11	G-5 (B)
		Q107	B-5	TP12	D-7 (B)
		Q201	A-7 (B)	TP101	C-4 (B)
		Q202	B-4 (B)	TP201	B-4 (B)
		Q203	A-5 (B)	TP301	A-3 (B)
		Q204	A-5 (B)	TP401	A-3 (B)
		Q205	A-4 (B)		
		Q206	A-4		
		Q207	B-4	X1	D-1
		Q301	C-2 (B)	X2	D-4
		Q401	B-2 (B)	X3	G-2
		Q501	C-5 (B)	X504	F-4
		Q502	C-4 (B)		
		Q503	C-4 (B)		
		Q504	F-7		
		Q505	B-6 (B)		
		Q506	F-7		

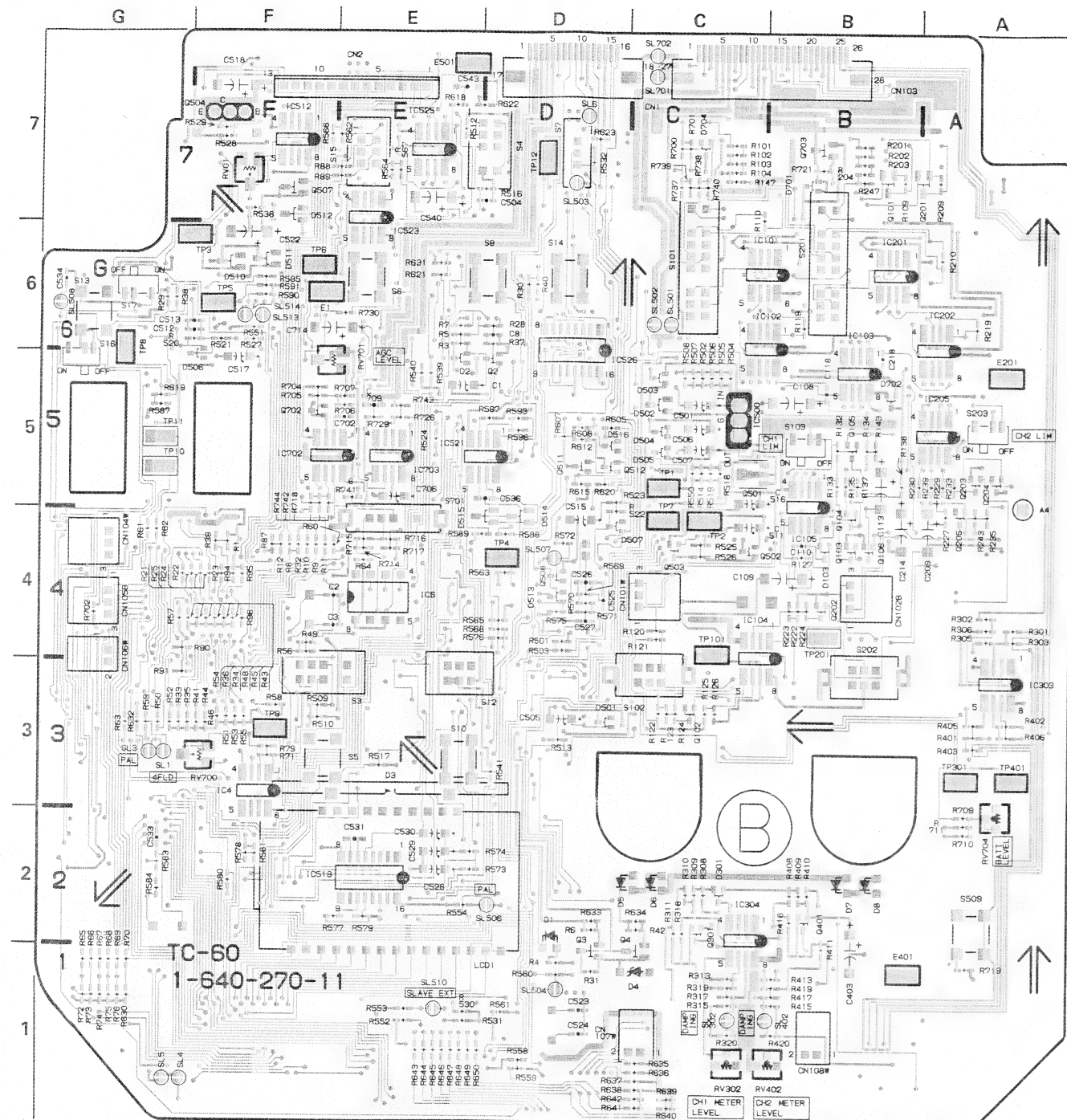
NOTE  
\*\* : \*\*A SIDE  
\*\*(B) : \*\*B SIDE

A Side



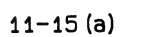
TC-60/P -A SIDE-  
1-640-270-11  
PVV-1-----TC-60  
PVV-1P-----TC-60P

① TP5 PB LTC 5Vp-p PB mode

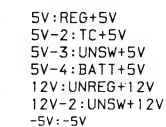


TC-60/P -B SIDE-  
1-640-270-11  
PVV-1-----TC-60  
PVV-1P-----TC-60P

```
Time Code SW
Time Code Generator
Time Code REC/PB Amplifier
```



A	B	C	D	E	F	G	H
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1-640-270-11  
PVV-1P (EK) ; #10001-10100



## TC-60P BOARD

Audio Line/Meter Amp  
Time Code

S/N 10101 through 11420

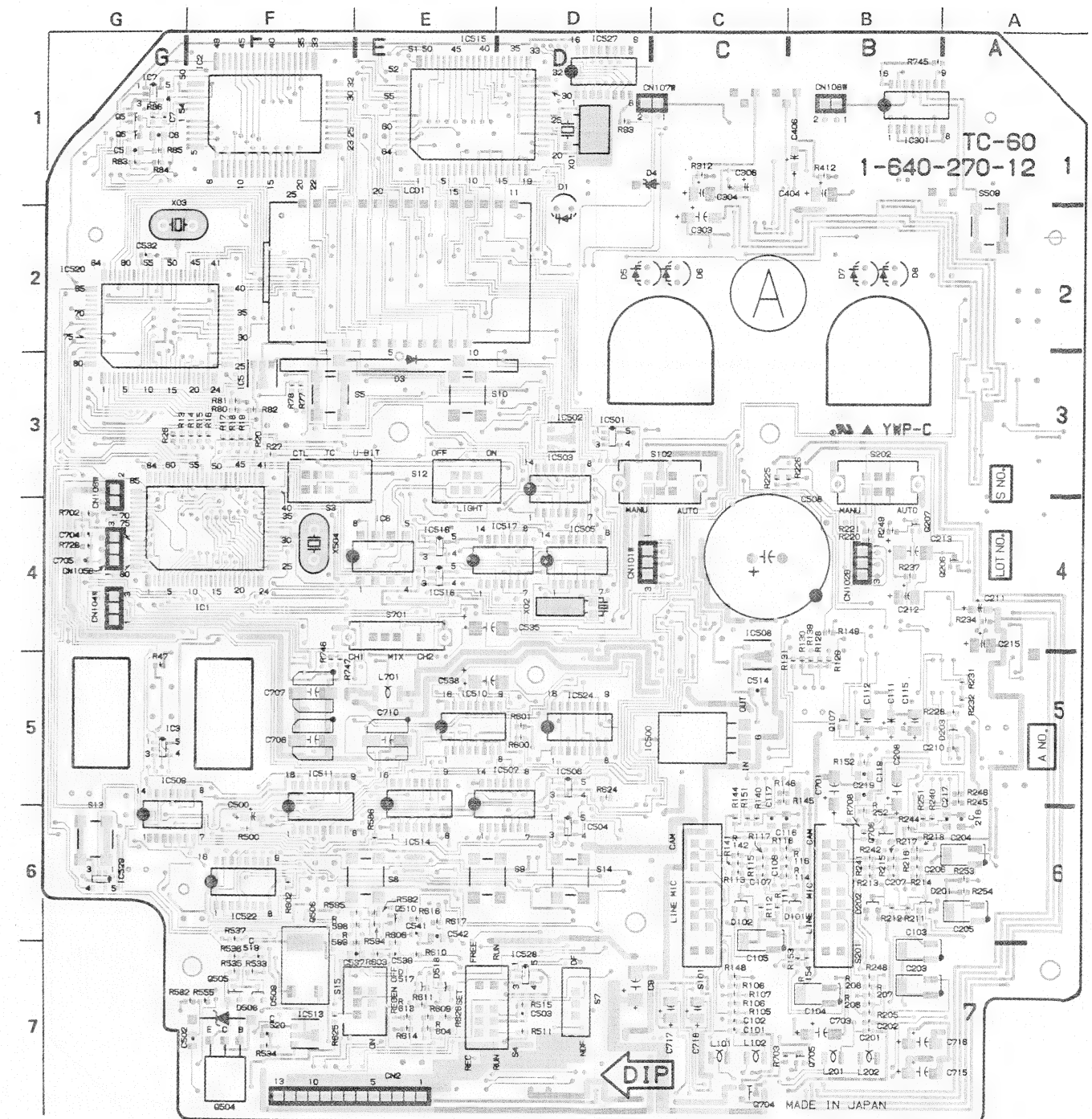
## TC-60P (1-640-270-12)

CN1	D-7 (B)	IC202	A-6 (B)	Q506	F-7
CN2	E-7 (B)	IC205	A-5 (B)	Q507	F-7 (B)
CN101	C-4 (B)	IC301	B-1	Q508	D-4 (B)
CN102	B-4 (B)	IC303	A-3 (B)	Q510	E-6
CN103	B-7 (B)	IC304	B-2 (B)	Q511	D-5 (B)
CN104	G-4 (B)	IC500	C-5	Q512	C-5 (B)
CN105	G-4 (B)	IC501	C-3	Q702	E-5 (B)
CN106	G-3 (B)	IC502	D-3	Q703	B-7 (B)
CN107	C-1 (B)	IC503	D-4	Q704	C-7
CN108	B-1 (B)	IC504	D-6	Q705	B-7
		IC505	D-4	Q706	B-6
		IC506	D-5		
D1	D-1	IC507	D-6	RV1	F-7 (B)
D2	D-5 (B)	IC508	C-5	RV302	C-1
D3	E-3	IC509	G-6	RV402	B-1
D4	C-1	IC510	E-5	RV700	F-3 (B)
D5	C-2	IC511	F-6	RV701	E-5 (B)
D6	C-2	IC512	F-7 (B)	RV704	A-1
D7	B-2	IC513	F-7		
D8	B-2	IC514	E-6	S3	E-3
D101	B-6	IC515	D-1	S4	D-7
D102	C-6	IC516	E-4	S5	E-3
D103	B-4 (B)	IC517	D-4	S7	D-7
D201	A-6	IC518	E-4	S8	E-6
D202	B-6	IC519	E-2 (B)	S9	D-6
D203	A-5	IC520	G-2	S10	D-3
D301	C-2 (B)	IC521	D-5 (B)	S12	D-3
D501	C-3 (B)	IC522	F-6	S13	G-6
D502	C-5 (B)	IC523	E-7 (B)	S14	D-6
D503	C-5 (B)	IC524	D-5	S15	E-7
D504	C-5 (B)	IC525	E-7 (B)	S16	G-5 (B)
D505	C-5 (B)	IC526	D-6 (B)	S17	G-6 (B)
D506	F-5 (B)	IC527	D-1	S101	C-6
D507	C-4 (B)	IC528	D-7	S102	C-3
D508	F-7	IC529	G-6	S103	B-5 (B)
D509	F-7	IC702	E-5 (B)	S201	B-6
D510	F-6 (B)	IC703	E-5 (B)	S202	B-3
D511	F-6 (B)	IC705	E-5 (B)	S203	A-5 (B)
D512	F-7 (B)			S509	A-2
D513	D-4 (B)	LCD1	E-2	S701	E-4
D514	D-4 (B)				
D515	D-4 (B)	Q2	D-5 (B)	TP1	C-5 (B)
D516	C-5 (B)	Q3	D-1 (B)	TP2	C-4 (B)
D517	E-7	Q4	C-1 (B)	TP3	F-6 (B)
D518	E-7	Q5	G-1	TP4	D-4 (B)
D701	B-7 (B)	Q6	G-1	TP5	F-6 (B)
D702	B-5 (B)	Q101	B-7 (B)	TP6	E-6 (B)
D704	C-7 (B)	Q102	C-3 (B)	TP7	C-4 (B)
		Q103	B-4 (B)	TP8	G-5 (B)
		Q104	B-4 (B)	TP9	F-3 (B)
		Q105	B-5 (B)	TP10	G-5 (B)
		Q106	B-4 (B)	TP11	G-5 (B)
		Q107	B-5	TP12	C-6 (B)
		Q201	A-7 (B)	TP13	E-1 (B)
		Q202	B-4 (B)	TP14	A-2 (B)
		Q203	A-5 (B)	TP15	E-1 (B)
		Q204	A-5 (B)	TP16	A-2 (B)
		Q205	A-4 (B)	TP101	C-4 (B)
		Q206	A-4	TP201	B-4 (B)
		Q207	B-4	TP301	A-3 (B)
		Q301	C-2 (B)	TP401	A-3 (B)
		Q401	B-2 (B)		
		Q501	B-5 (B)		
		Q502	C-4 (B)		
		Q503	C-4 (B)		
		Q504	F-7		
		Q505	F-7		
				X1	D-1
				X2	D-4
				X3	F-2
				X504	F-4

## NOTE

\*\*\* : \*\*A SIDE  
\*\*(B) : \*\*B SIDE

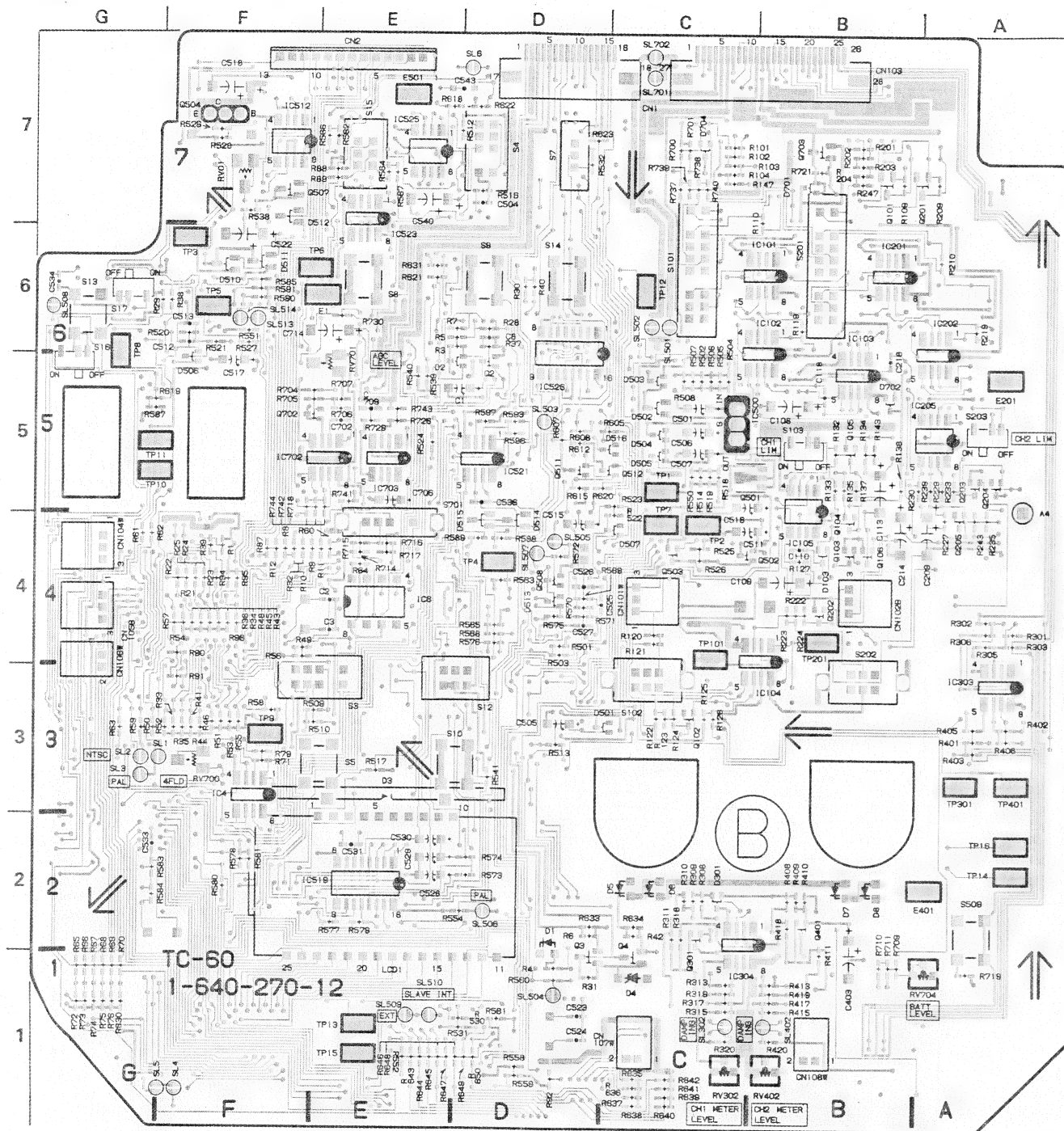
A Side



TC-60P -A SIDE-  
1-640-270-12  
PVV-1P

TC-60P (1/3)

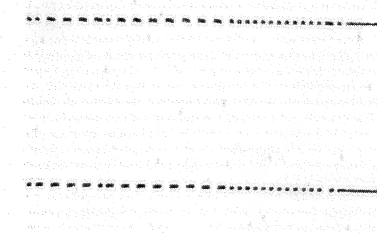
B Side



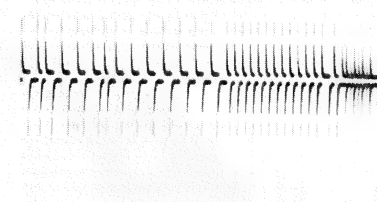
TC-60P -B SIDE-  
1-640-270-12  
PVV-1P

11-14 (b)

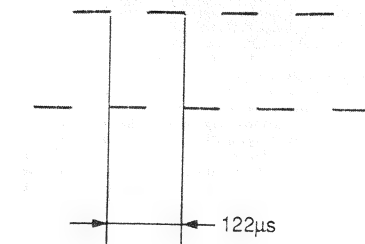
①  TP5 PB LTC 5Vp-p PB mode



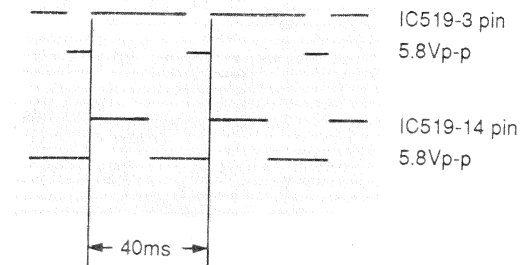
② CN1-16 pin REC LTC 16Vp-p REC mode



③ IC519-4 pin 6Vp-p REC mode

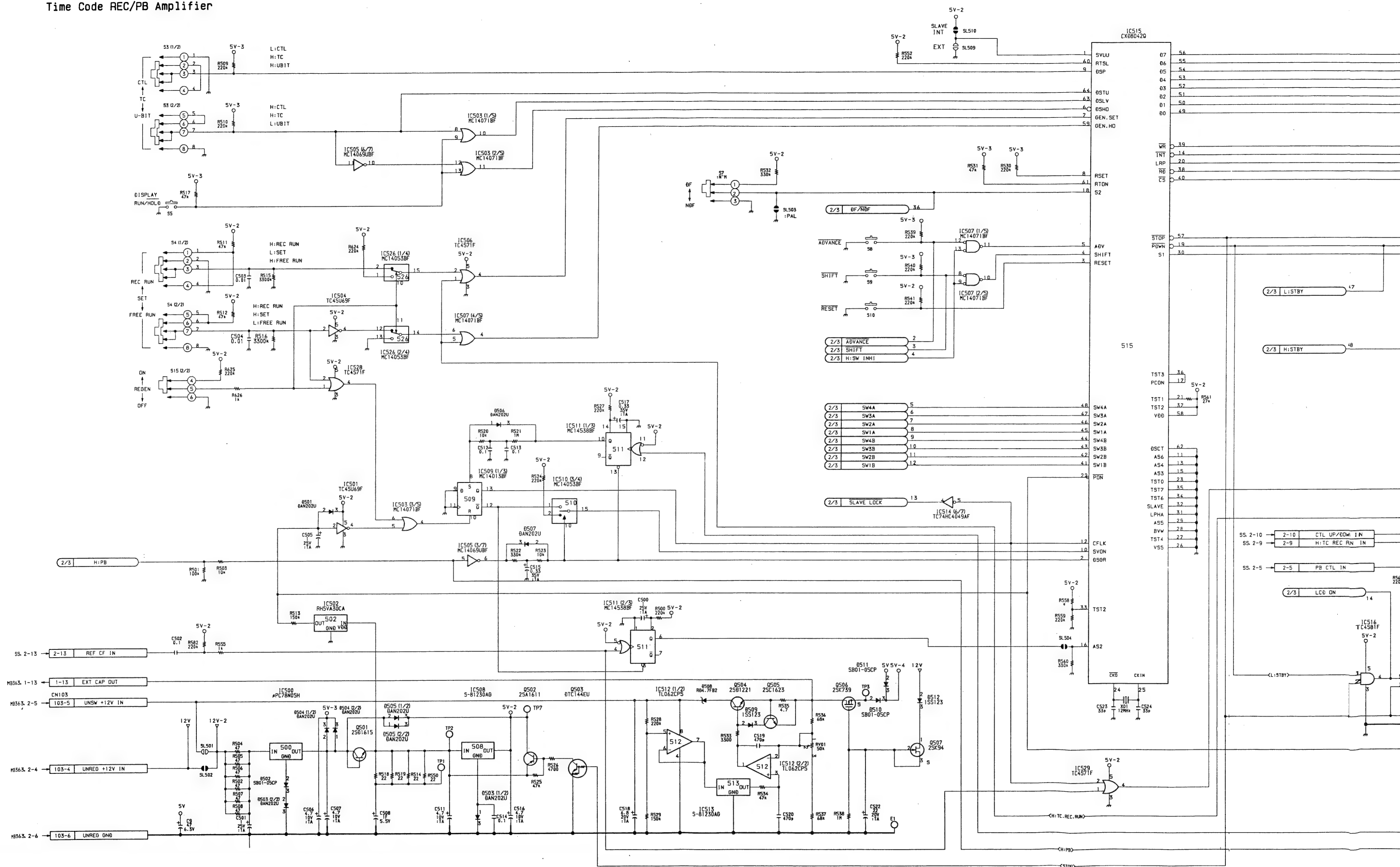


④ REC mode



11-14 (b)

Time Code SW  
Time Code Generator  
Time Code REC/PB Amplifier







TC-60P BOARD (1/3)  
1-640-270-12  
PVV-1P (EK) : #10101-1140

TC-60P BOARD

Audio Line/Meter Amp  
Time Code

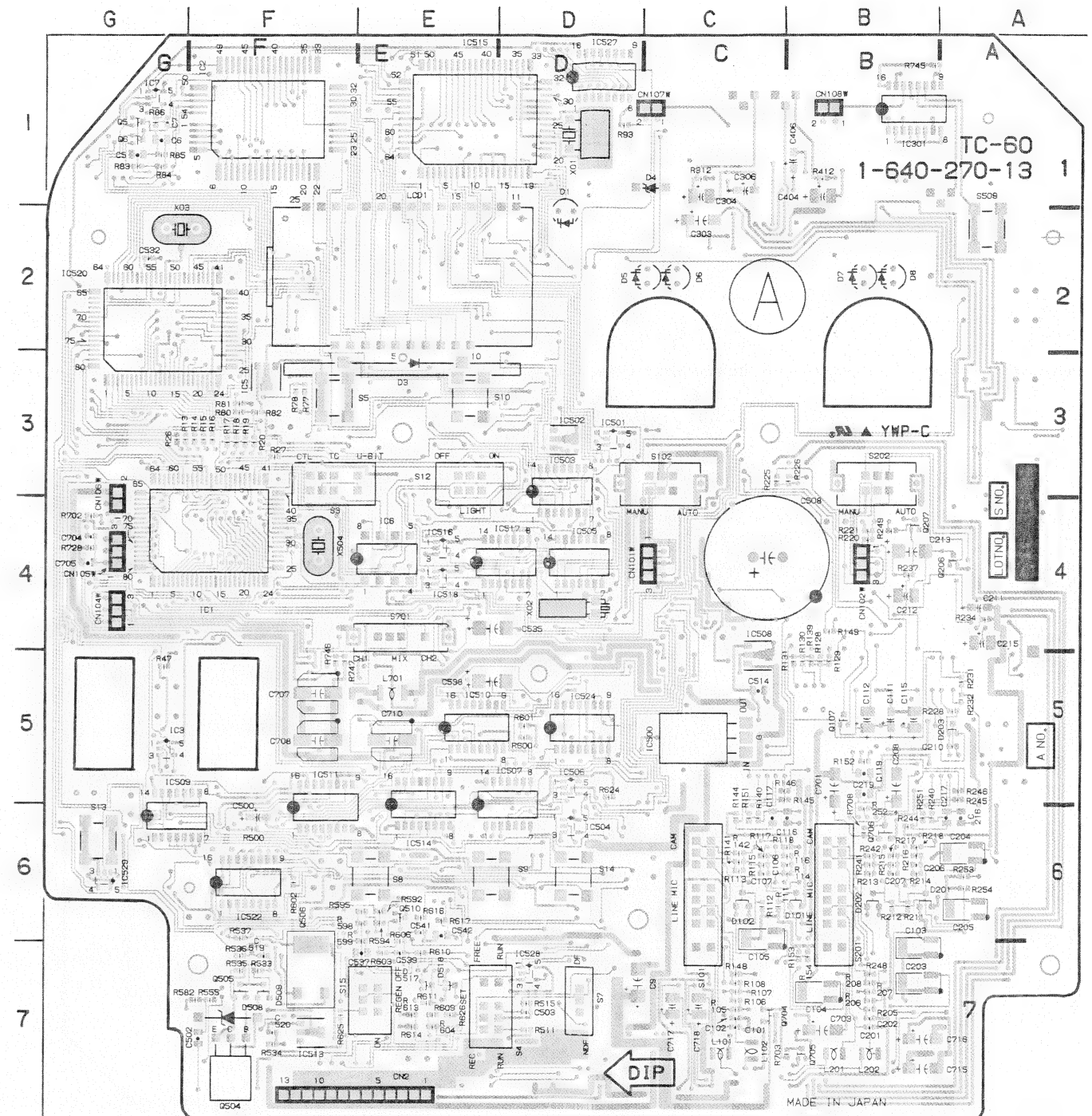
S/N 11421 and higher

TC-60P (1-640-270-13)

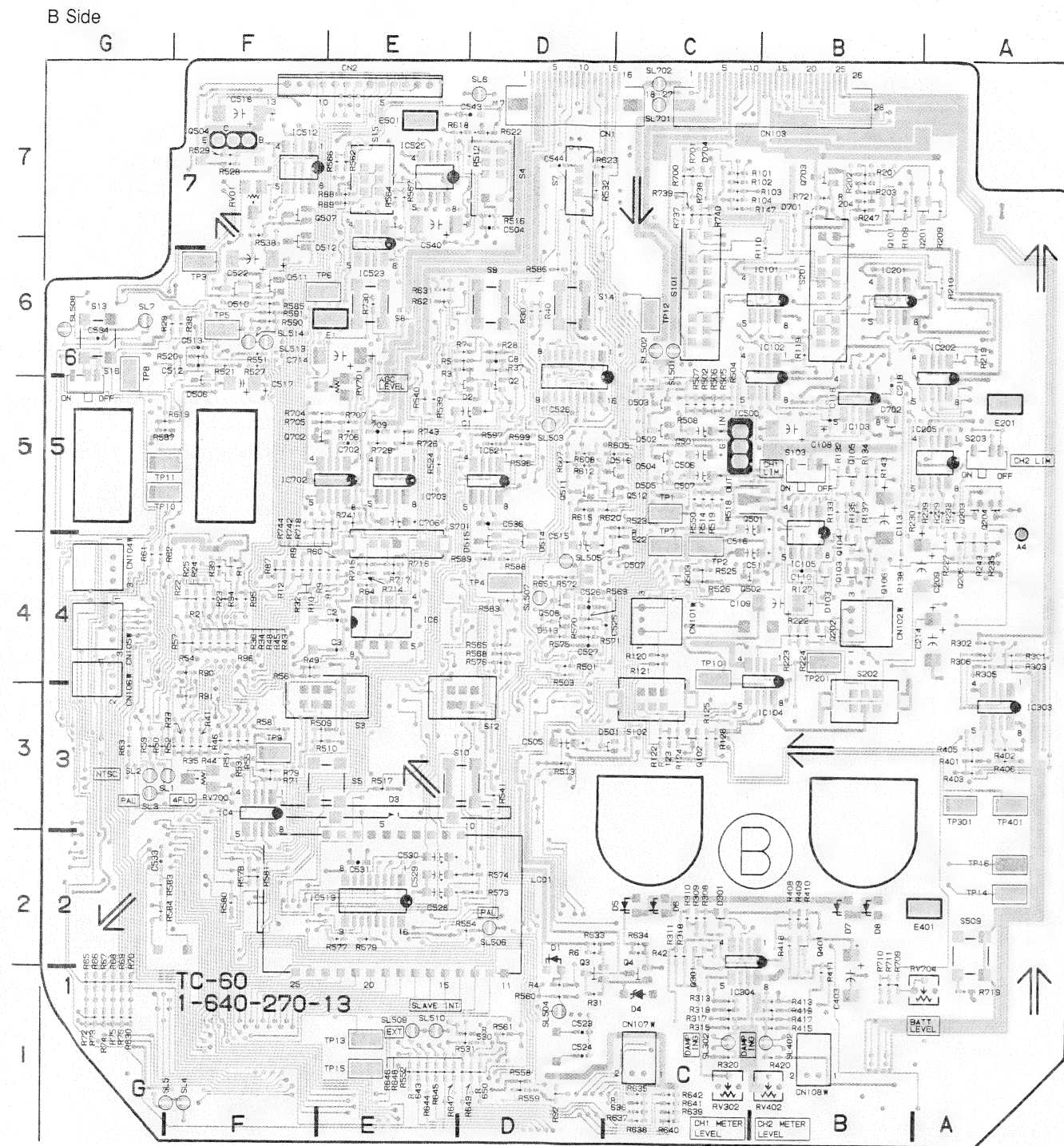
CN1	D-7 (B)	IC202	A-6 (B)	Q506	F-7
CN2	E-7 (B)	IC205	A-5 (B)	Q507	F-7 (B)
CN101	C-4 (B)	IC301	B-1	Q508	D-4 (B)
CN102	B-4 (B)	IC303	A-3 (B)	Q510	E-6
CN103	B-7 (B)	IC304	C-2 (B)	Q511	D-5 (B)
CN104	G-4 (B)	IC500	C-5	Q512	C-5 (B)
CN105	G-4 (B)	IC501	D-3	Q702	F-5 (B)
CN106	G-3 (B)	IC502	D-3	Q703	B-7 (B)
CN107	C-1 (B)	IC503	D-4	Q704	B-7
CN108	B-1 (B)	IC504	D-6	Q705	B-7
		IC505	D-4	Q706	B-6
		IC506	D-5		
D1	D-1	IC507	D-6	RV1	F-7 (B)
D2	E-5 (B)	IC508	C-5	RV302	C-1 (B)
D3	E-3	IC509	G-6	RV402	B-1 (B)
D4	C-1	IC510	E-5	RV700	F-3 (B)
D5	C-2	IC511	F-6	RV701	E-5 (B)
D6	C-2	IC512	F-7 (B)	RV704	A-1 (B)
D7	B-2	IC513	F-7		
D8	B-2	IC514	E-6	S3	F-3
D101	B-6	IC515	E-1	S4	D-7
D102	C-6	IC516	E-4	S5	F-3
D103	B-4 (B)	IC517	D-4	S7	D-7
D201	B-6	IC518	E-4	S8	E-6
D202	B-6	IC519	E-2 (B)	S9	D-6
D203	A-5	IC520	G-2	S10	E-3
D301	C-2 (B)	IC521	D-5 (B)	S12	E-3
D501	D-3 (B)	IC522	F-6	S13	G-6
D502	C-5 (B)	IC523	E-7 (B)	S14	D-6
D503	C-5 (B)	IC524	D-5	S15	E-7
D504	C-5 (B)	IC525	E-7 (B)	S16	G-5 (B)
D505	C-5 (B)	IC526	D-6 (B)	S17	G-6 (B)
D506	F-5 (B)	IC527	D-1	S101	C-6
D507	C-4 (B)	IC528	D-7	S102	C-3
D508	F-7	IC529	G-6	S103	B-5 (B)
D509	F-7	IC702	E-5 (B)	S201	B-6
D510	F-6 (B)	IC703	E-5 (B)	S202	B-3
D511	F-6 (B)			S203	A-5 (B)
D512	F-7 (B)			S509	A-2
D513	D-4 (B)	LCD1	E-2	S701	E-4
D514	D-4 (B)				
D515	D-4 (B)	Q2	D-5 (B)	TP1	C-5 (B)
D516	D-5 (B)	Q3	D-1 (B)	TP2	C-4 (B)
D517	E-7	Q4	C-1 (B)	TP3	F-6 (B)
D518	E-7	Q5	G-1	TP4	D-4 (B)
D701	B-7 (B)	Q6	G-1	TP5	F-6 (B)
D702	B-5 (B)	Q101	B-7 (B)	TP6	F-6 (B)
D704	C-7 (B)	Q102	C-3 (B)	TP7	C-4 (B)
		Q103	B-4 (B)	TP8	G-5 (B)
		Q104	B-4 (B)	TP9	F-3 (B)
		Q105	B-5 (B)	TP10	G-5 (B)
		Q106	B-4 (B)	TP11	G-5 (B)
		Q107	B-5	TP12	D-6 (B)
		Q201	B-7 (B)	TP101	C-4 (B)
		Q202	B-4 (B)	TP201	B-4 (B)
		Q203	A-5 (B)	TP301	A-3 (B)
		Q204	A-5 (B)	TP401	A-3 (B)
		Q205	A-4 (B)		
		Q206	A-4		
		Q207	B-4	X1	D-1
		Q301	C-2 (B)	X2	D-4
		Q401	B-2 (B)	X3	F-2
		Q501	C-5 (B)	X504	F-4
		Q502	C-4 (B)		
		Q503	C-4 (B)		
		Q504	F-7		
		Q505	F-7		

NOTE  
... : ... A SIDE  
... (B) : ... B SIDE

A Side



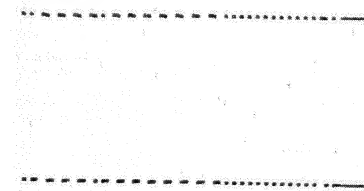
TC-60P -A SIDE.  
1-640-270-13  
PVV-1P



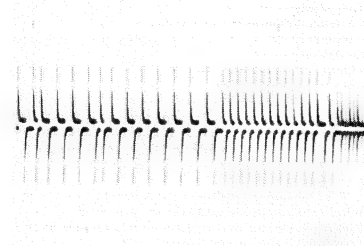
**TC-60P -B SIDE-**  
1-640-270-13  
PVV-1P

**TC-60P (1/3)**

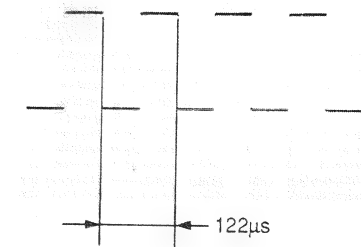
■ TP5 PB LTC 5Vp-p PB mode



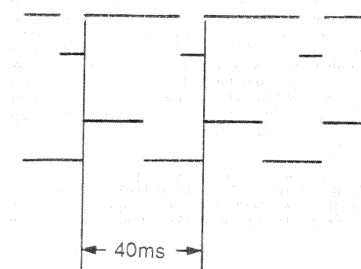
CN1-16 pin REC LTC 16Vp-p REC mode



IC519-4 pin 6Vp-p REC mode



REC mode



IC519-3 pin  
5.8Vp-p  
IC519-14 pin  
5.8Vp-p

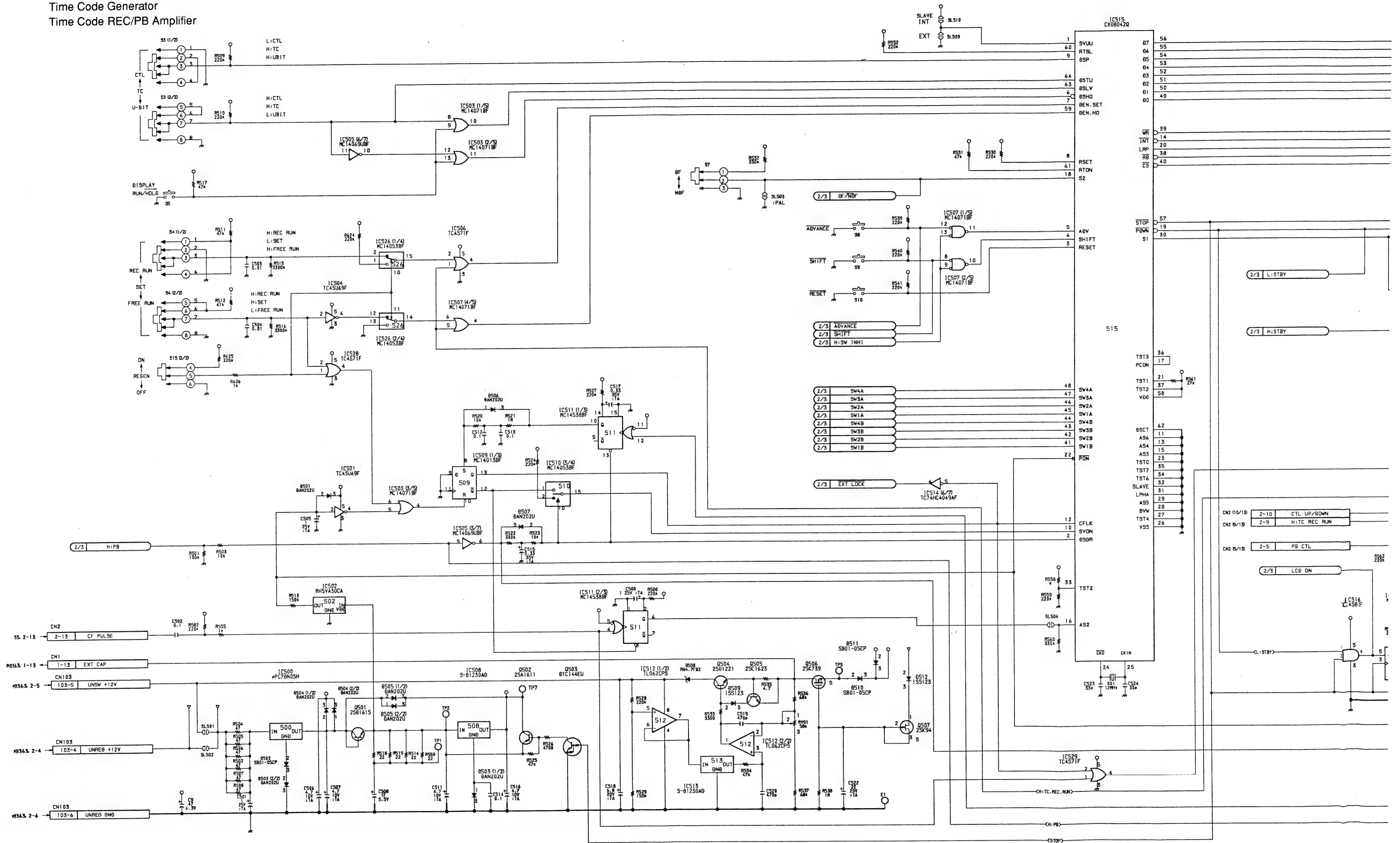
## TC-60P BOARD (1/3)

S/N 11421 and higher

Time Code SW

Time Code Generator

Time Code REC/PB Amplifier



11 - 15 (c)

11 - 15 (c)

A

**B**

**C**

**D**

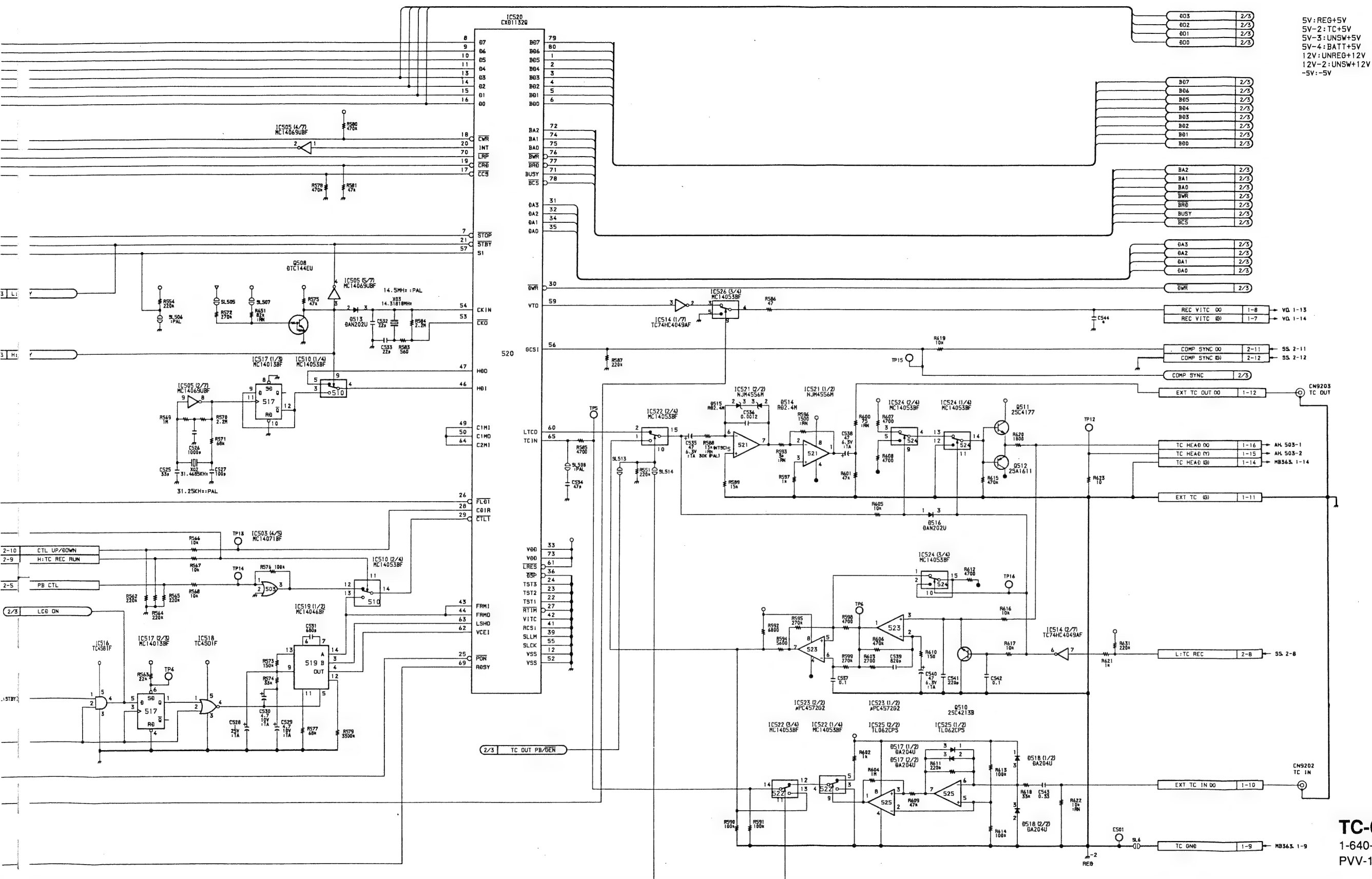
E

**F**

**G**

## H

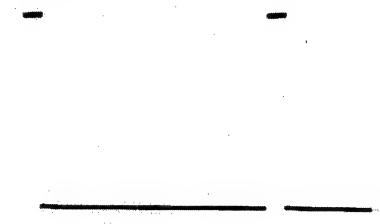


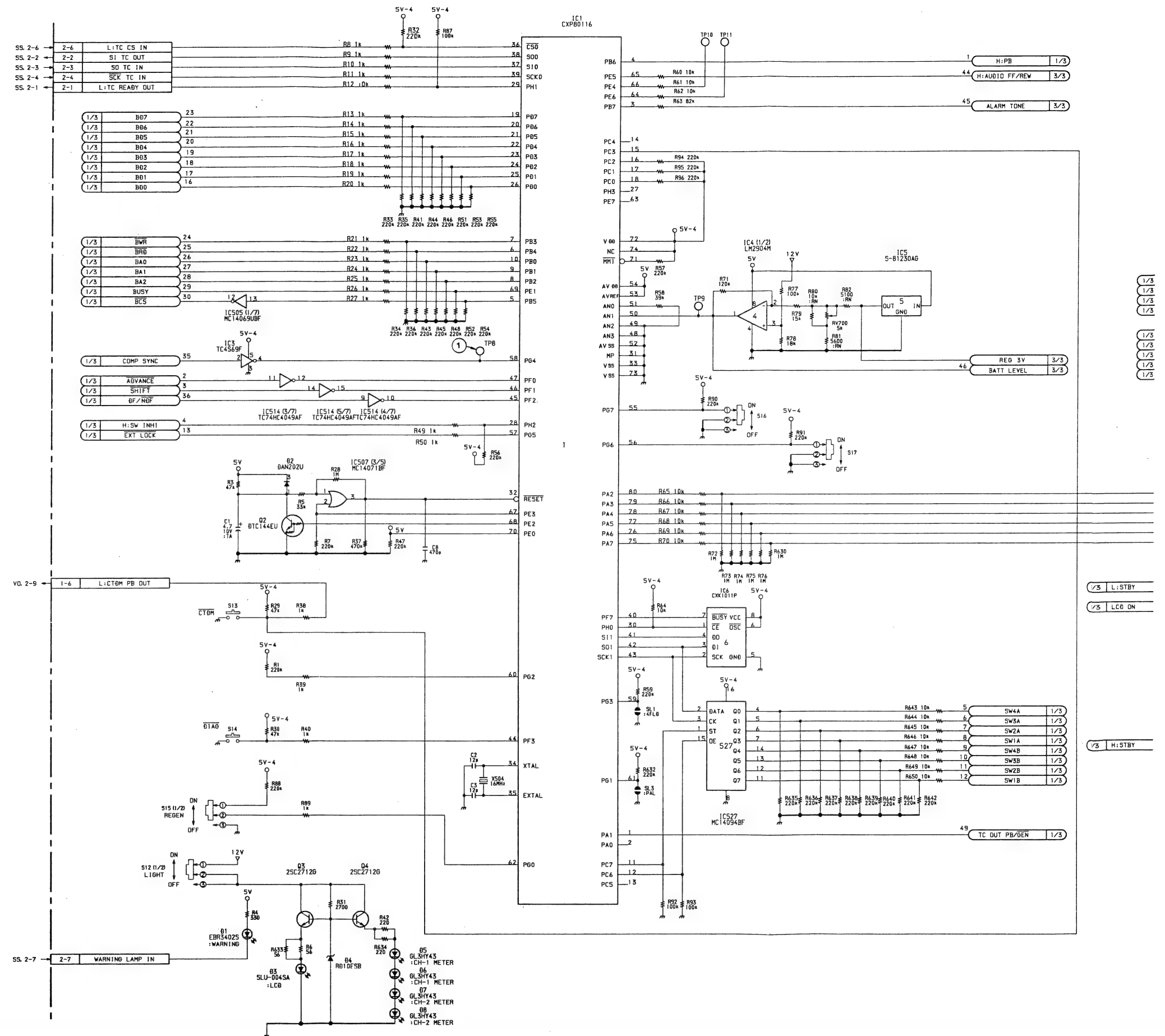


## TC-60P BOARD (1/3)

1-640-270-13  
PVV-1P (EK) ; #11421-

① ■ TP8 COMP SYNC 5.5Vp-p REC mode

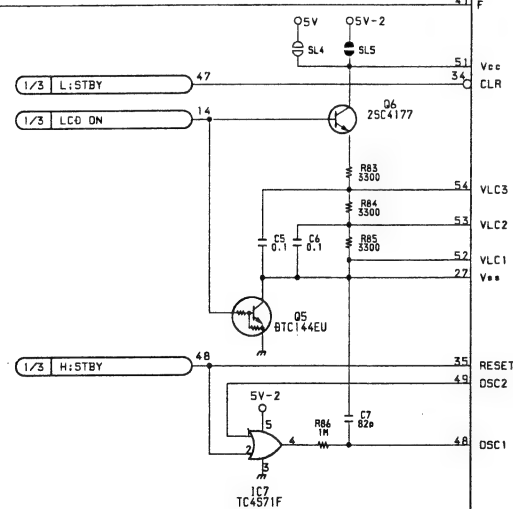
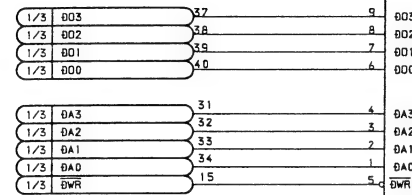
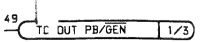
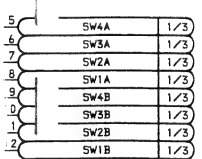
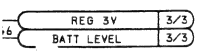
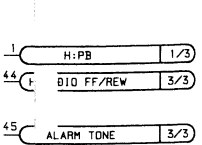




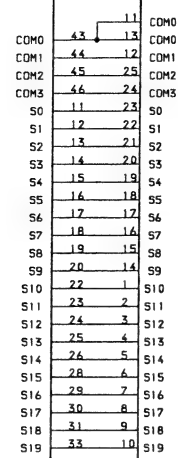
11-17 (a)

11-17 (a)



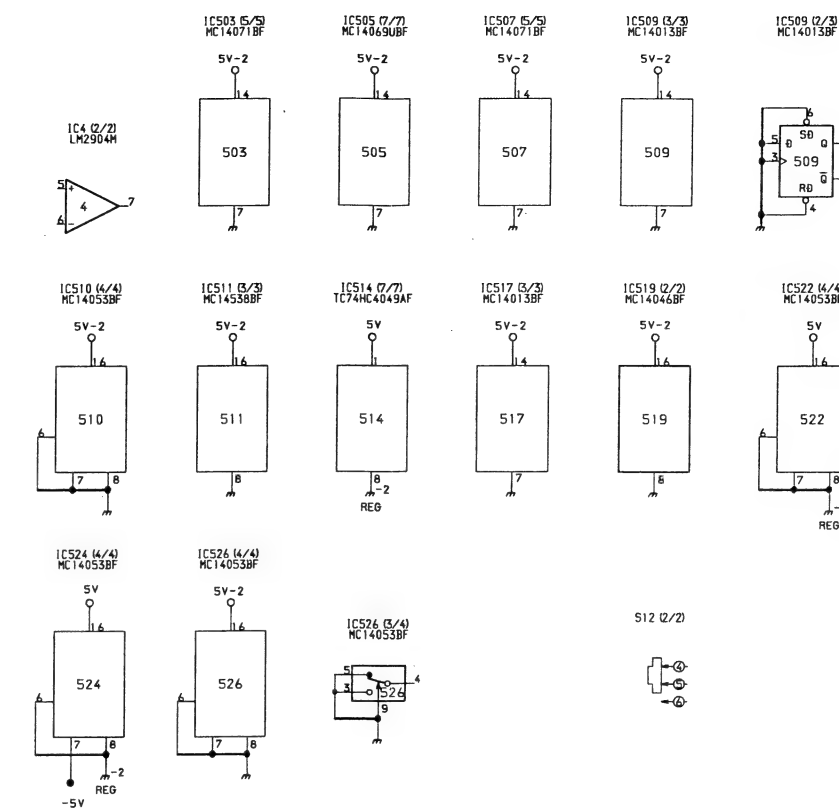
IC2  
CX011280

LC01



2

LC01



IC		(5V) +5V	(5V-2) +5V	(5V-4) +5V	UNSW	GND	REG	-5V
1	CXP80116			72	53	73		
2	CX011280		51					
3	TC45069F		5	5		3		
4	NJM2904M		8			4		
5	S-81230AG		2					
6	CXK1011P			6	8	5		
500	PC78N05H							
501	TC45069F		5			3		
502	RH5VA30CA							
503	MC14071BF		14			7		
504	TC45069F		5			3		
505	MC14069UBF		14			7		
506	TC4571F		5			3		
507	MC14071BF		14			7		
508	S81230AG							
509	MC14013BF		14			7		
510	MC14053BF		16			8		
511	MC14538BF		16			8		
512	TL062CPS				8	4		
513	S-81230AG						8	
514	TC74HC4049F		1					
515	CX08042Q		58			26		
516	TC4581F		5			3		
517	MC14013BF		14			7		
518	TC4501F		5			3		
519	MC14046BF		16			8		
520	CX01132Q		33	73		12	52	
521	NJM4556M		8					4
522	MC14053BF		16				8	
523	UPC4572G2		8					4
524	MC14053BF		16				8	
525	TL062CPS		8				4	
526	MC14053BF		16			8		

5V:REG +5V  
5V-2:TC +5V  
5V-3:UNSW +5V  
5V-4:BATT +5V

12V:UNREG +12V  
12V-2:UNSW +12V

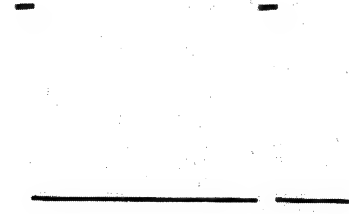
-5V:REG -5V

## TC-60P BOARD (2/3)

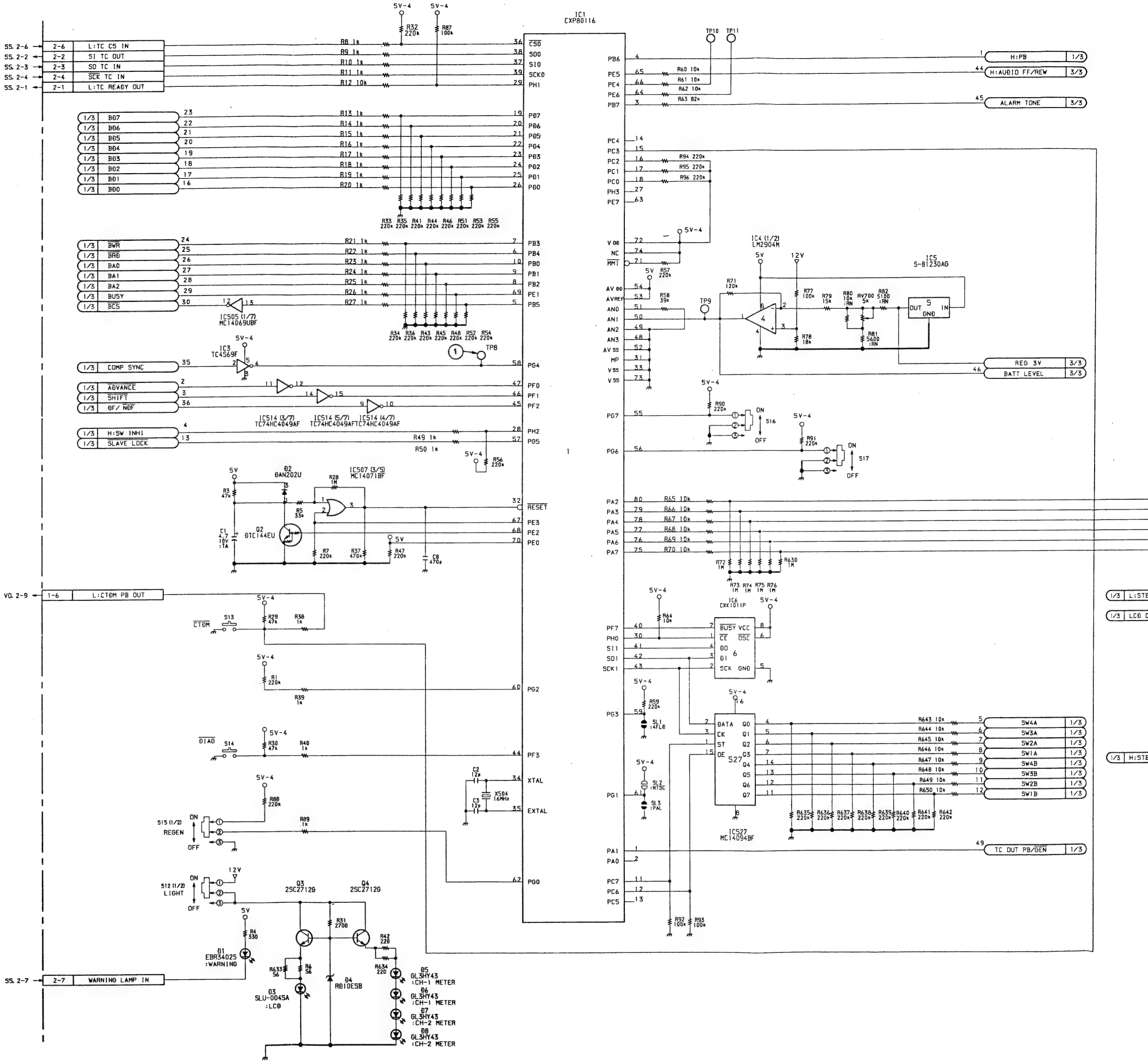
1-640-270-11

PVV-1P (EK) ; #10001-10100

① ■ TP8 COMP SYNC 5.5Vp-p REC mode



LCD Display  
VITC Insert Line Generator  
Battery Level Detect



H:PB 1/3  
F/REW 3/3  
TONE 3/3

REG 3V 3/3  
BATT LEVEL 3/3

W4A 1/3  
SW3A 1/3  
SW2A 1/3  
SW1A 1/3  
W4B 1/3  
W3B 1/3  
W2B 1/3  
SW1B 1/3

TC ON 3/GEN 1/3

IC2  
CX801128Q

LCB1

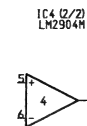
COM0 11  
COM1 12  
COM2 25  
COM3 24  
S0 23  
S1 22  
S2 21  
S3 20  
S4 19  
S5 18  
S6 17  
S7 16  
S8 15  
S9 14  
S10 13  
S11 12  
S12 11  
S13 10  
S14 9  
S15 8  
S16 7  
S17 6  
S18 5  
S19 4

1/3 003 32 9 003  
1/3 002 38 8 002  
1/3 001 39 7 001  
1/3 000 40 6 000  
1/3 DA3 31 4 DA3  
1/3 DA2 32 3 DA2  
1/3 DA1 33 2 DA1  
1/3 DA0 34 1 DA0  
1/3 DWR 15 5 DWR

2

LCB1

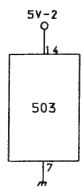
IC		+5V	TC +5V	BATT +5V	UNSW +12V	GND	REG GND	-5V
1	CXP80116			72		33 73		
2	CX801128Q		51					
3	TC45069F		5	5		3		
4	NJM2904M	8				4		
5	S-81230AG	2						
6	CXK1011P			6 8		5		
500	PC78N05H							
501	TC45069F		5			3		
502	RHSVA30CA							
503	MC14071BF		14			7		
504	TC45069F		5			3		
505	MC14069UBF		14			7		
506	TC4571F		5			3		
507	MC14071BF		14			7		
508	S81230AG							
509	MC14013BF		14			7		
510	MC14053BF		16			8		
511	MC14538BF		16			8		
512	TL062CPS				8 4			
513	S-81230AG							
514	TC74HC4049F	1				8		
515	CX08042Q		58			26		
516	TC4581F		5			3		
517	MC14013BF		14			7		
518	TC4501F		5			3		
519	MC14046BF		16			8		
520	CX801132Q		33 73			12 52		
521	NJM4556M	8						4
522	MC14053BF		16				8	
523	UPC457202	8						4
524	MC14053BF		16				8	
525	TL062CPS	8						4
526	MC14053BF		16				8	



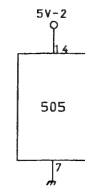
5V:REG +5V  
5V-2:TC +5V  
5V-3:UNSW +5V  
5V-4:BATT +5V  
12V:UNREG +12V  
12V-2:UNSW +12V  
-5V:REG -5V



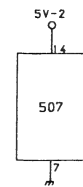
IC503 (5/5)  
MC14071BF



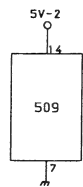
IC505 (7/7)  
MC14069UBF



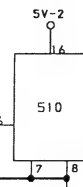
IC507 (5/5)  
MC14071BF



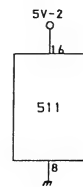
IC509 (3/3)  
MC14013BF



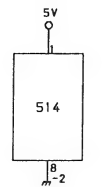
IC510 (4/4)  
MC14053BF



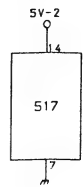
IC511 (3/3)  
MC14538BF



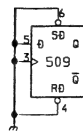
IC514 (7/7)  
TC74HC4049AF



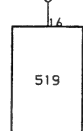
IC517 (3/3)  
MC14013BF



IC509 (2/2)  
MC14013BF



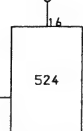
IC519 (2/2)  
MC14046BF



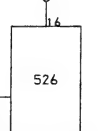
IC522 (4/4)  
MC14053BF



IC524 (4/4)  
MC14053BF



IC526 (4/4)  
MC14053BF



IC526 (3/4)  
MC14053BF



TC-60P BOARD (2/3)

1-640-270-12  
PVV-1P (EK); #10101-11420

TC-60P TC-60P

TC-60P (2/3)

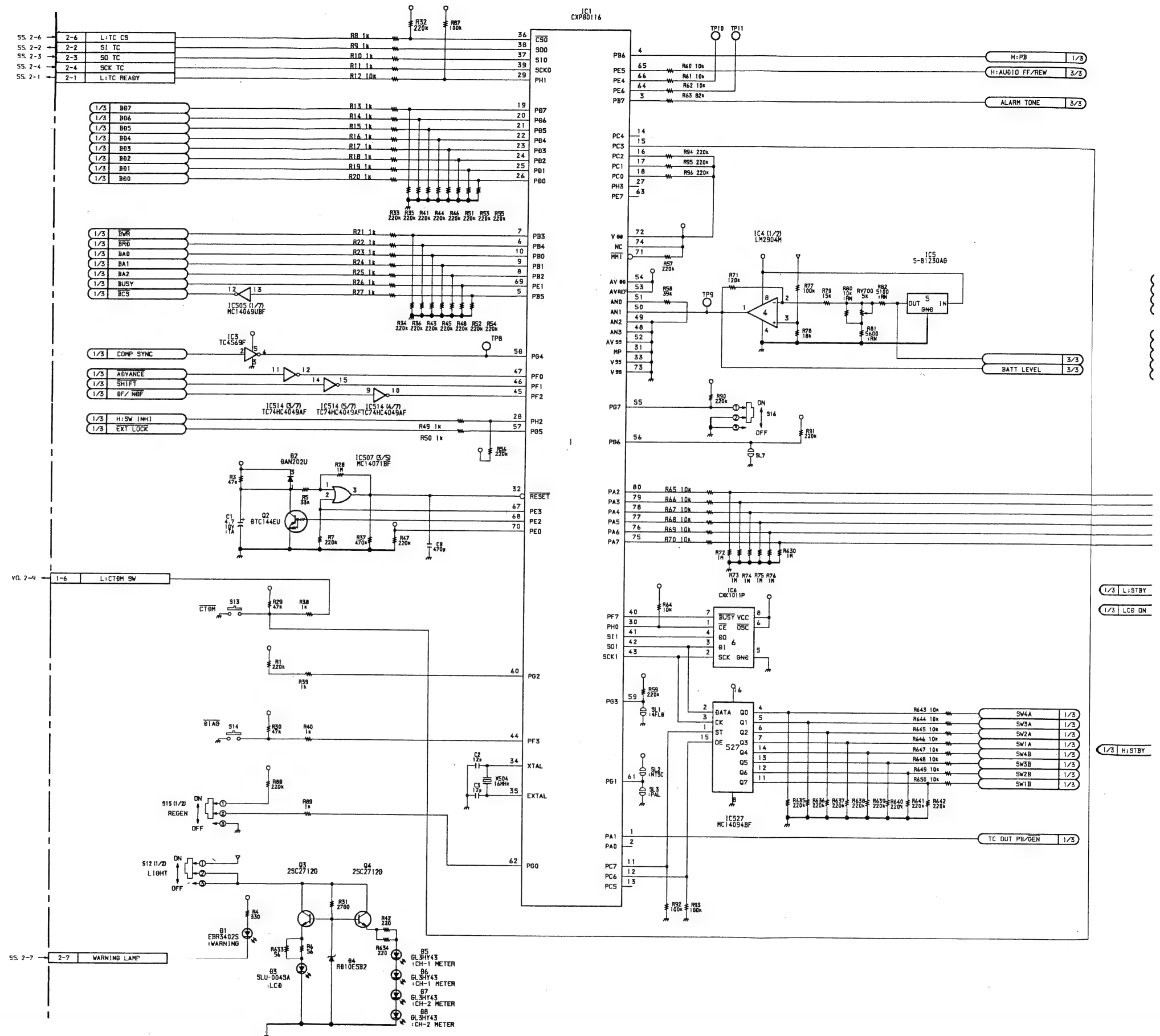
S/N 11421 and higher

■ TP8 COMP SYNC 5.5Vp-p REC mode

## TC-60P BOARD (2/3)

Time Code SW  
Time Code Generator  
Time Code REC/PB Amplifier

S/N 11421 and higher



11 - 17 (c)

11 - 17 (c)

**A**

**B**

**C**

D

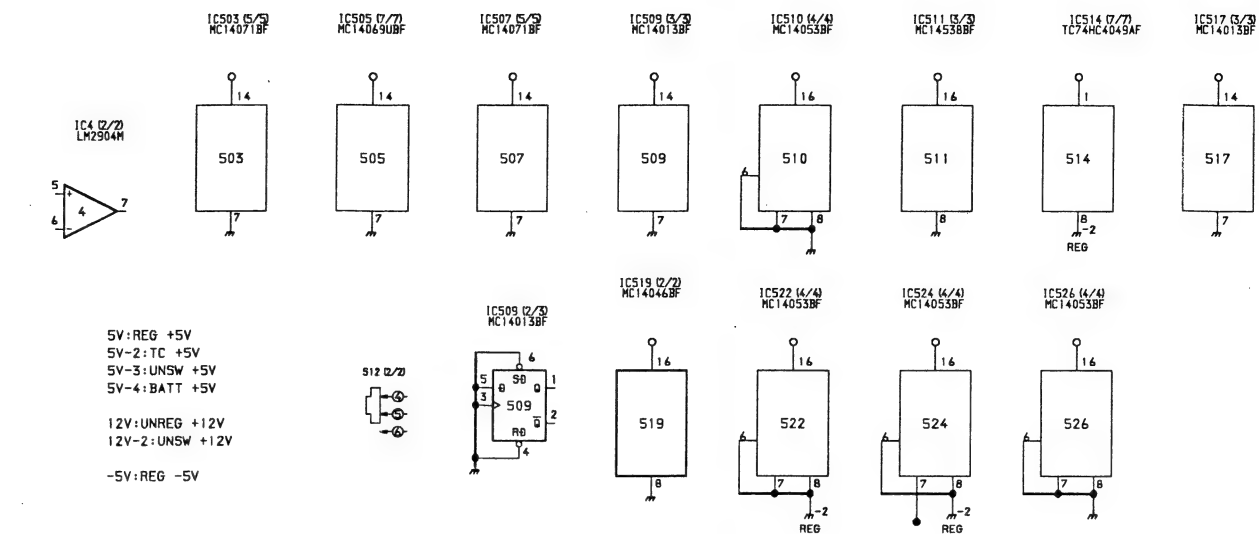
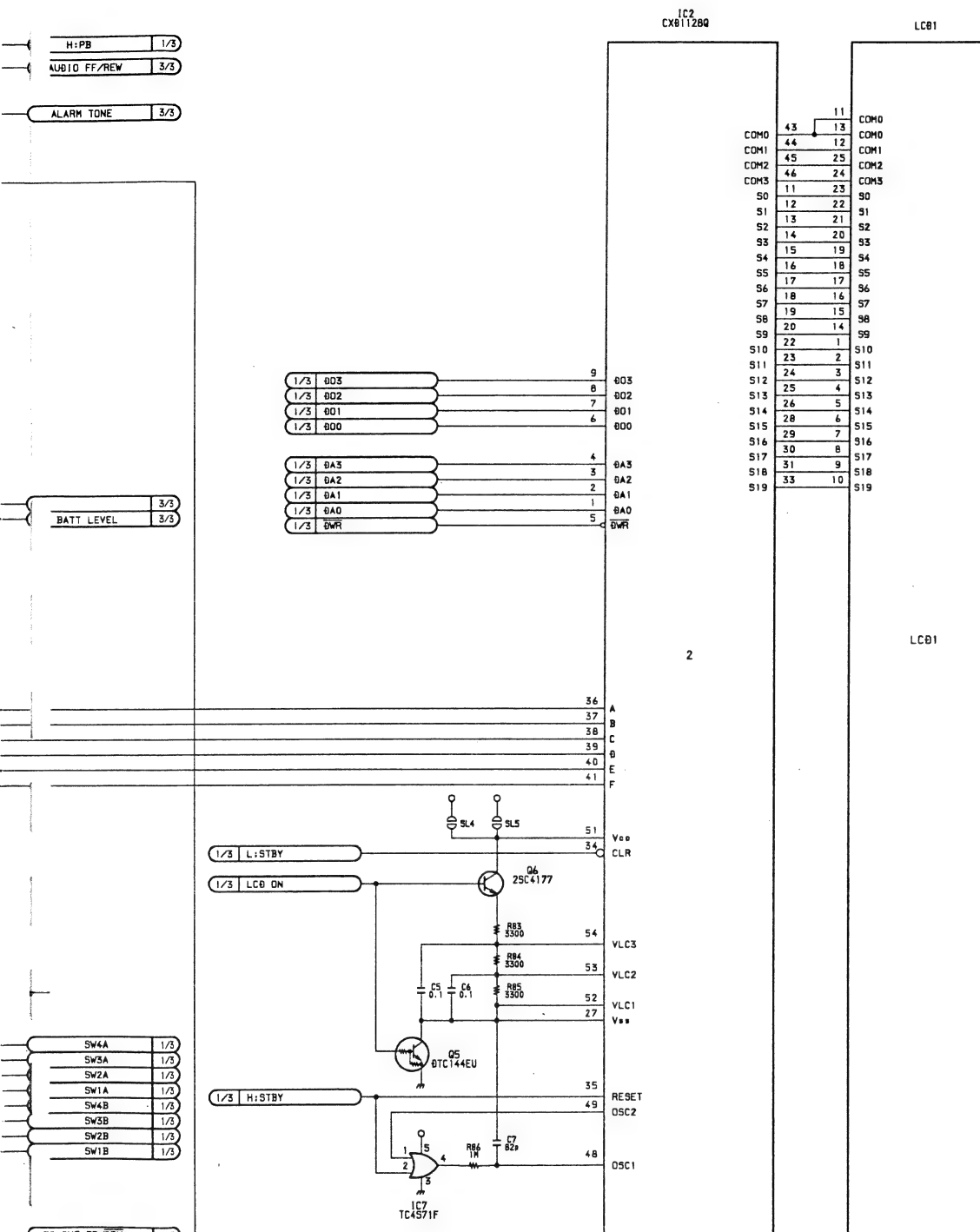
F

5

9

71





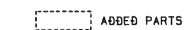
		5V (5V-2/5V-4)					
IC		TC	BATT	UNSW	REG	REG	
1	CXP80116	+5V	+5V	+5V	+12V	GND	-5V
2	CX011280		51	72	33	73	
3	TC45069F		5	5	3		
4	NJM2904M	8			4		
5	S-81230A0	2					
6	CXK1011P		6	8	5		
500	PC78N05H						
501	TC45069F		5		3		
502	RHSVA30CA						
503	MC14071BF	14		7			
504	TC45069F	5		3			
505	MC14069UBF	14		7			
506	TC4571F	5		3			
507	MC14071BF	14		7			
508	S81230A0						
509	MC14013BF	14		7			
510	MC14053BF	16		8			
511	MC14538BF	16		8			
512	TL062CPS			8	4		
513	S-81230A0						
514	TC74HC4049F	1			8		
515	CX08042Q		58		26		
516	TC4581F	5		3			
517	MC14013BF	14		7			
518	TC4501F	5		3			
519	MC14046BF	16		8			
520	CX01132Q		33	73	12	52	
521	NJM4556M	8				4	
522	MC14053BF	16			8		
523	UPC457202	8				4	
524	MC14053BF	16			8		
525	TL062CPS	8				4	
526	MC14053BF	16			8		

## TC-60P BOARD (2/3)

1-640-270-13

PVV-1P (EK) ; #11421-

S/N 10001 through 10100

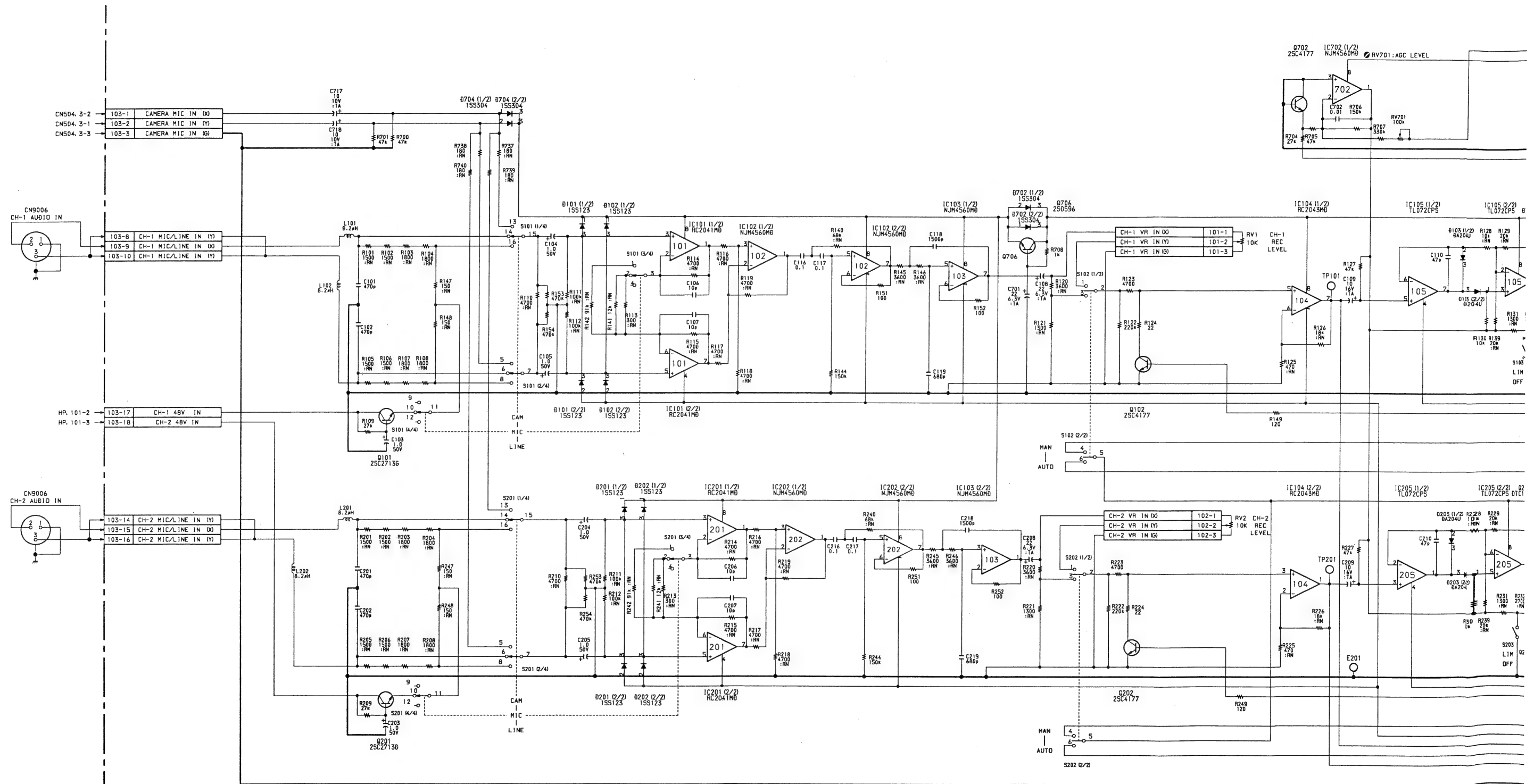


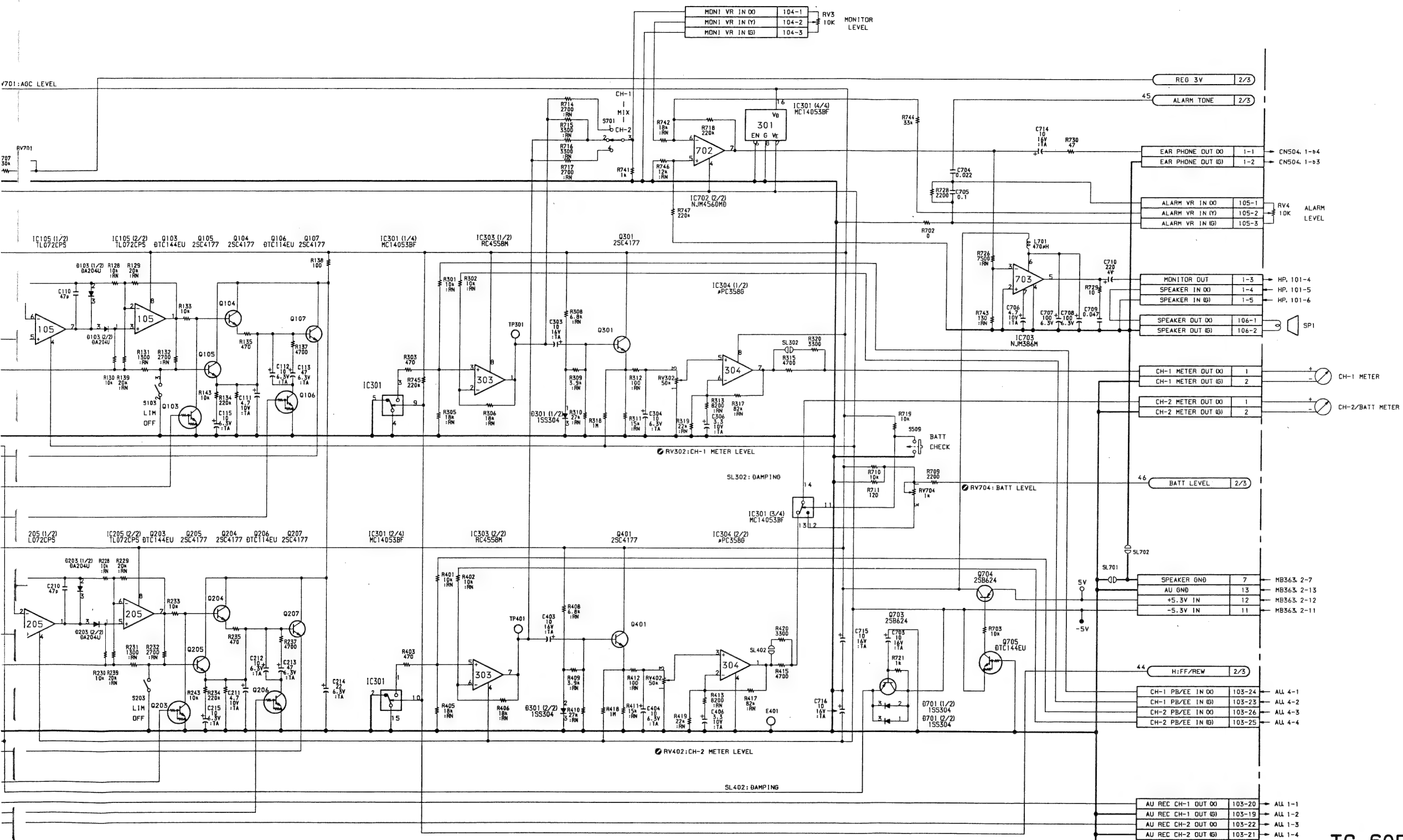
1-640-270-11  
PVV-1P (EK) ; #10001-10100

TC-60P BOARD (3/3)

Audio Line/Meter Amplifier

S/N 10101 through 11420





TC-60P BOARD (3/3)

1-640-270-12

PVV-1P (EK); #10101-11420

1

2

3

4

5

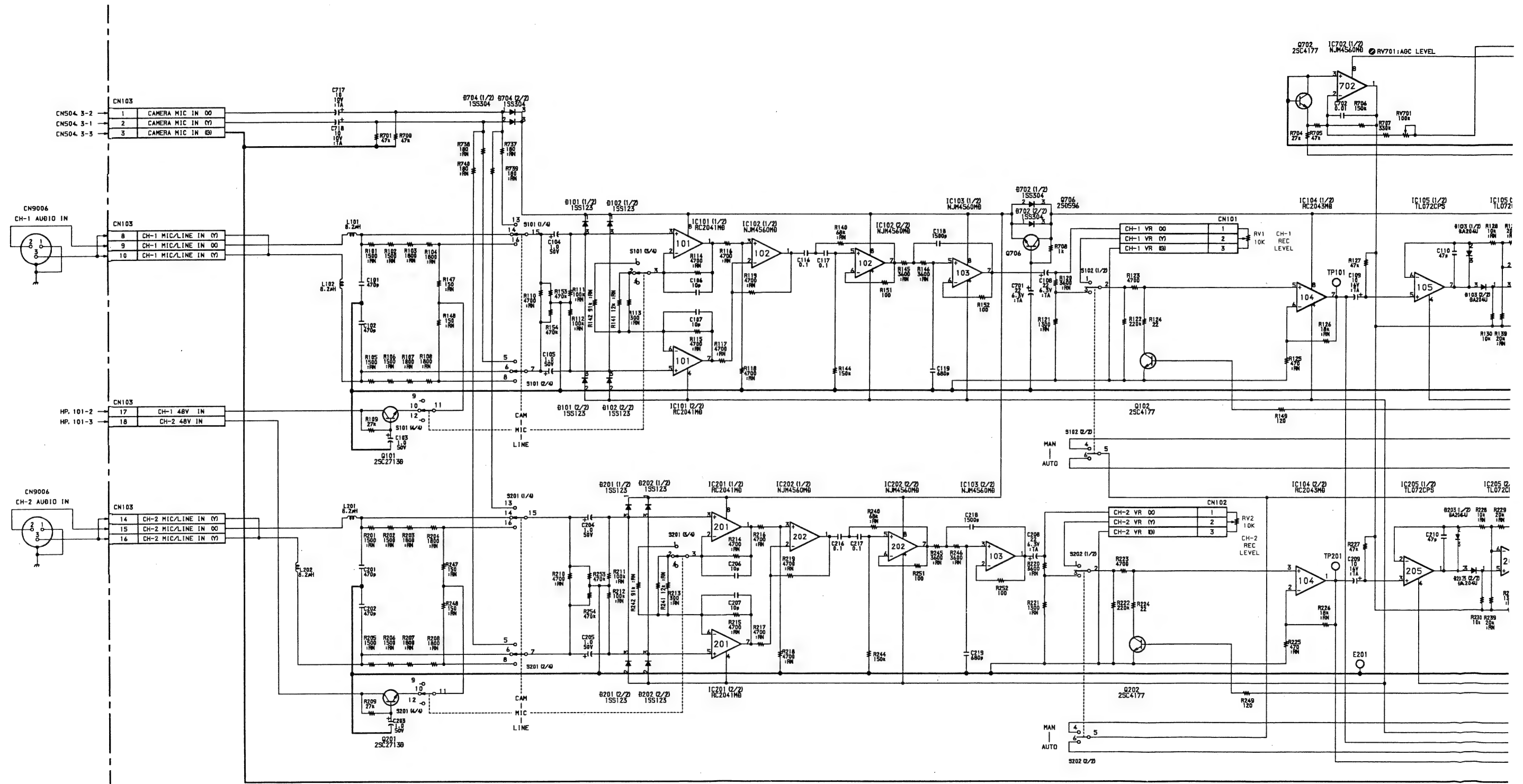
## TC-60P BOARD (3/3)

S/N 11421 and higher

Time Code SW

Time Code Generator

Time Code REC/PB Amplifier







## CN-504 BOARD

Mic Amp  
Camera 50P Connector

S/N 10001 through 10500

CN504 (1-640-273-11)

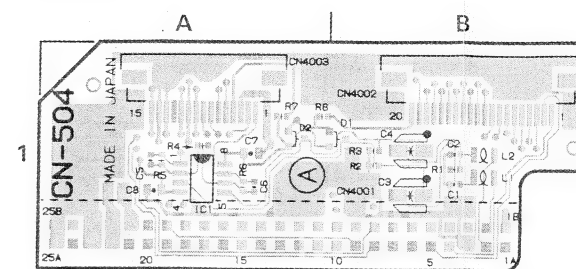
CN4001 B-1 (B)  
CN4002 B-1  
CN4003 A-1

D1 B-1  
D2 A-1

IC1 A-1

NOTE  
\*\* : \*\*A SIDE  
\*\* (B) : \*\*B SIDE

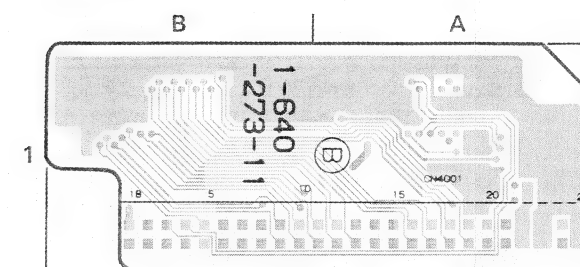
A Side



CN-504 -A SIDE-

1-640-273-11  
PVV-1  
PVV-1P

B Side



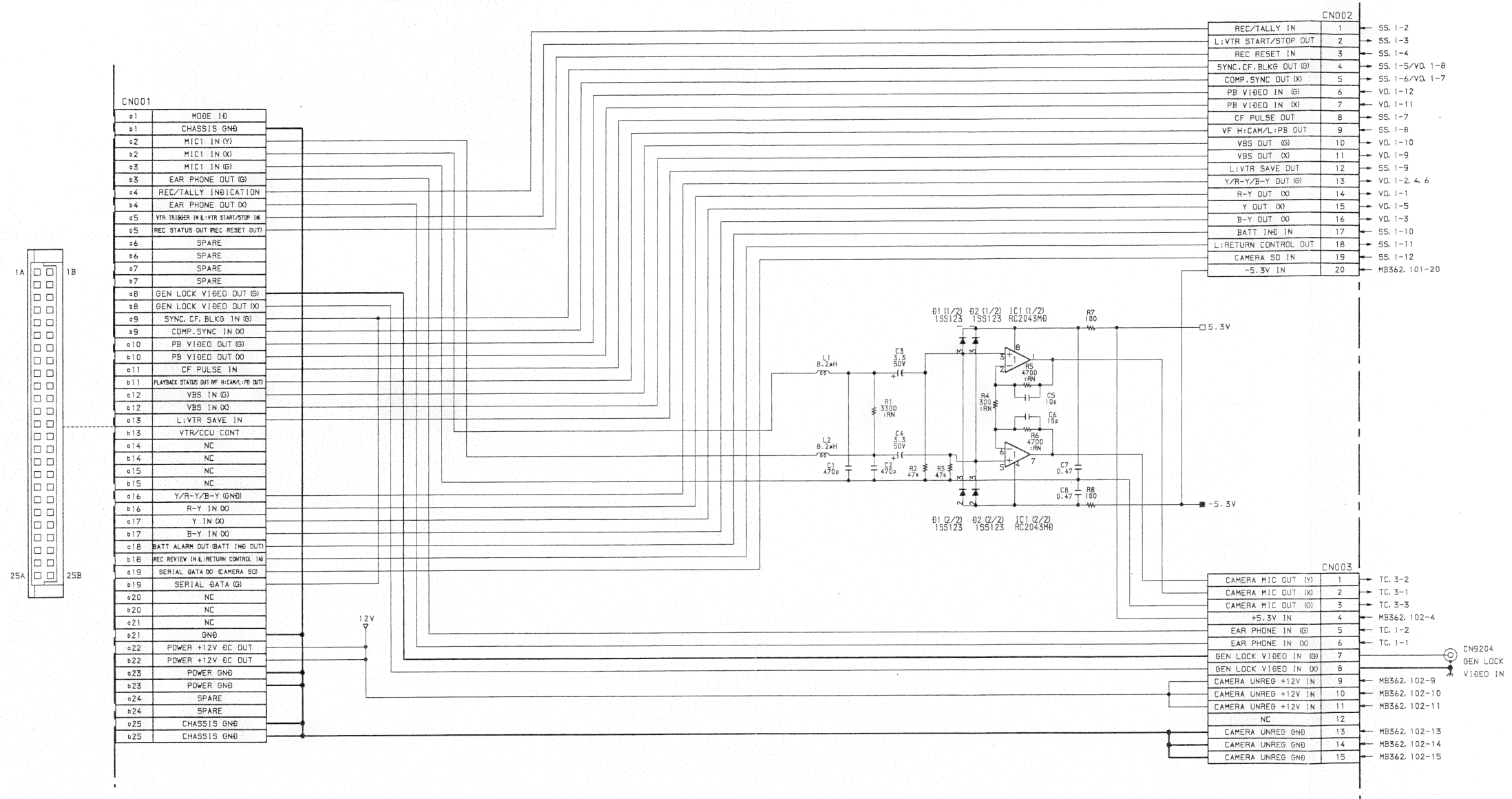
CN-504 -B SIDE-

1-640-273-11  
PVV-1  
PVV-1P

CN-504 BOARD

Mic Amp  
Camera 50P Connector

S/N 10001 through 10500



CN-504 BOARD

1-640-273-11  
PVV-1 (J) ; #10001-10460  
PVV-1 (UC) ; #10001-10840  
PVV-1P (EK) ; #10001-10500

CN-504 BOARD

Mic Amp  
Camera 50P Connector

S/N 10501 and higher

CN504 (1-640-273-13)

CN4001 B-1 (B)

CN4002 B-1

CN4003 A-1

D1 B-1

D2 A-1

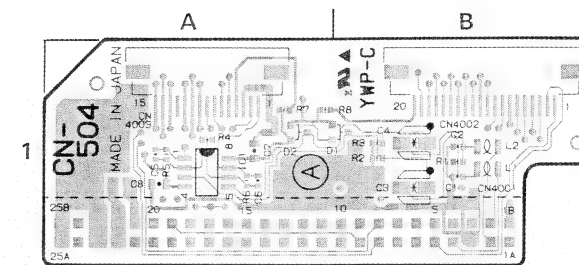
IC1 A-1

NOTE

\*\*\* : \*\*A SIDE

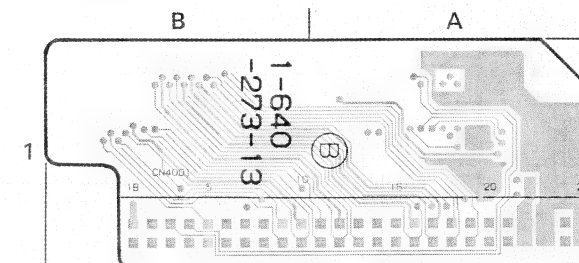
\*\*(B); \*\*B SIDE

A Side



CN-504 -A SIDE-  
1-640-273-13  
PVV-1P

B Side

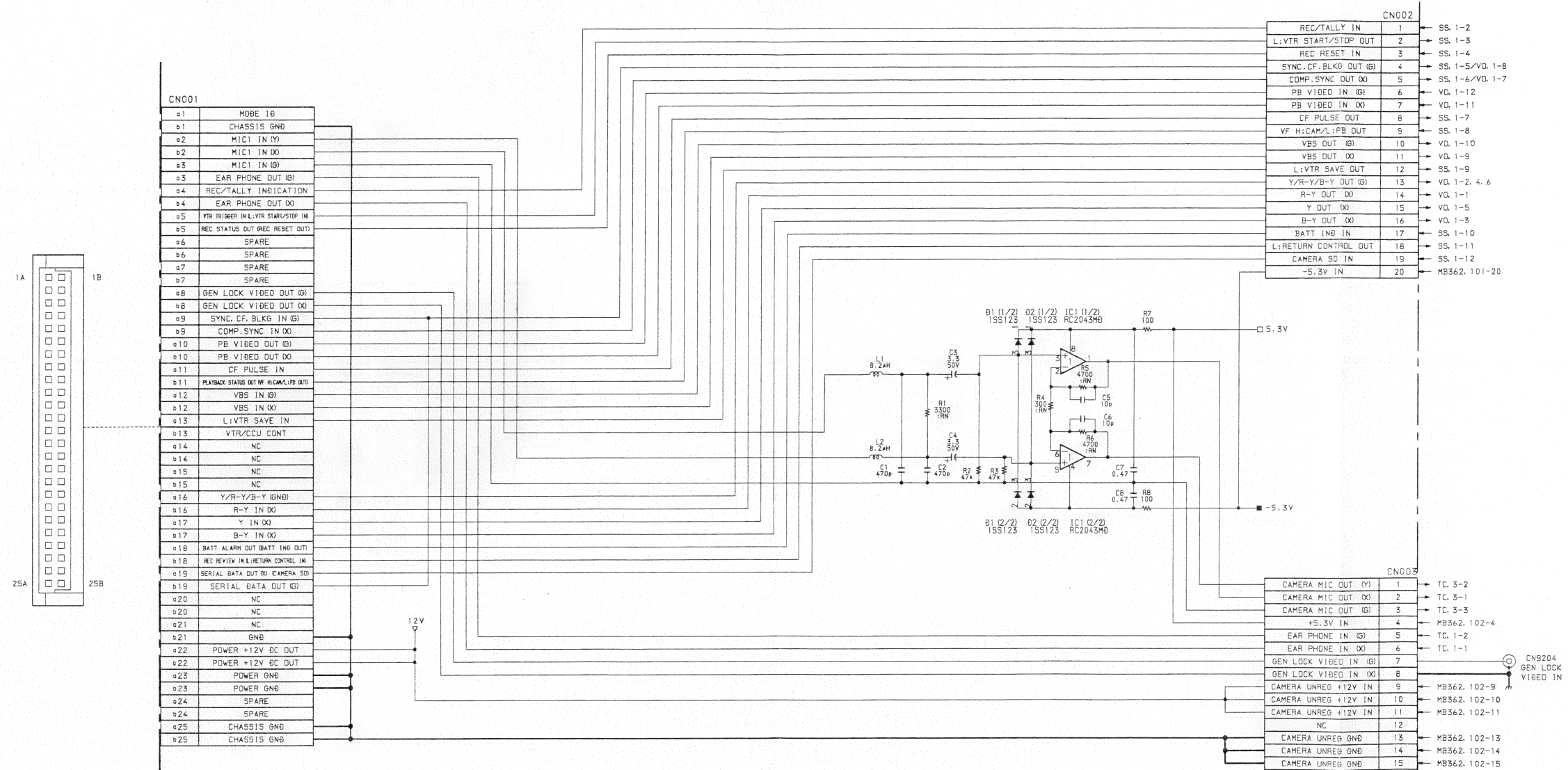


CN-504 -B SIDE-  
1-640-273-13  
PVV-1P

CN-504 BOARD

Mic Amp  
Camera 50P Connector

S/N 10501 and higher



**CN-504 BOARD**  
1-640-273-13  
PVV-1 (J) ; #10461-  
PVV-1 (UC) ; #10841-  
PVV-1P (EK) ; #10501-



CN-560 BOARD

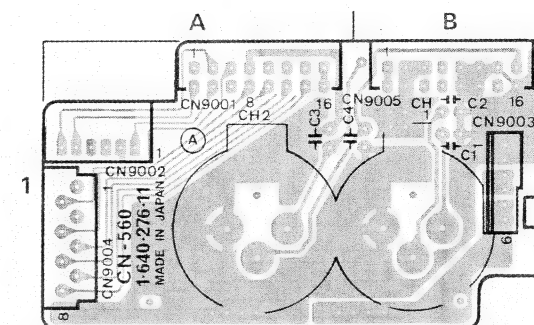
Audio XLR Connector

S/N 10001 through 10100

CN-560 (1-640-276-11)

CN9001 A-1  
CN9002 A-1  
CN9003 B-1  
CN9004 A-1  
CN9005 B-1

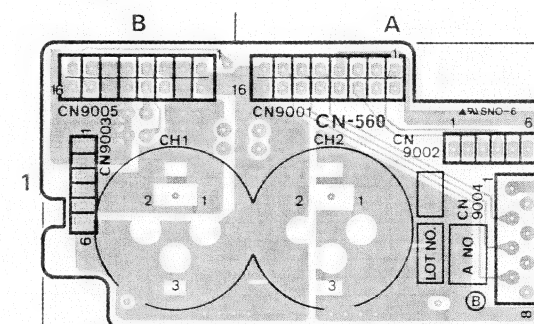
A Side



CN-560 -A SIDE-

1-640-276-11  
PVV-1  
PVV-1P

B Side



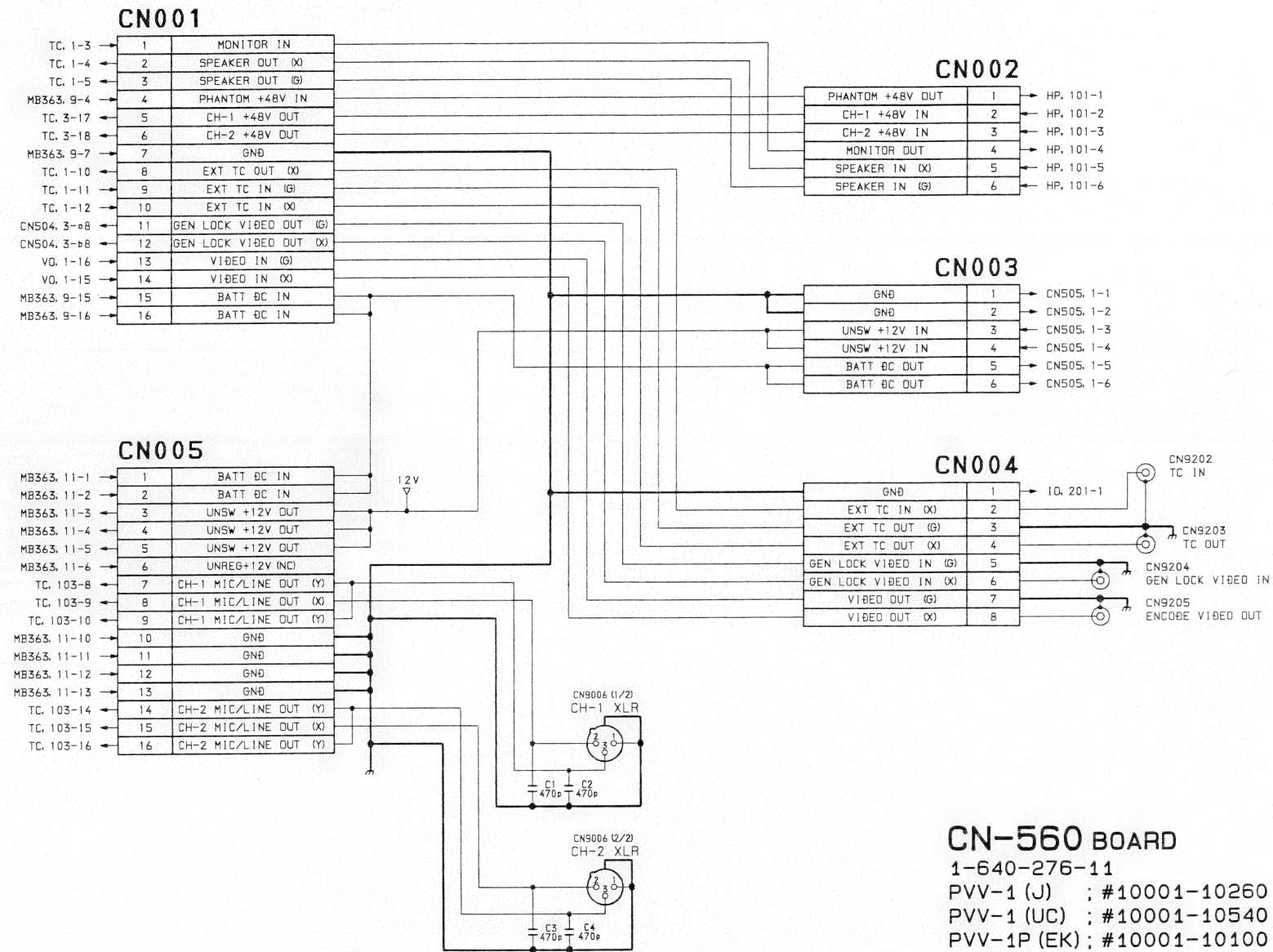
CN-560 -B SIDE-

1-640-276-11  
PVV-1  
PVV-1P



**CN-560 BOARD**  
Audio XLR Connector

S/N 10001 through 10100



CN-560 BOARD

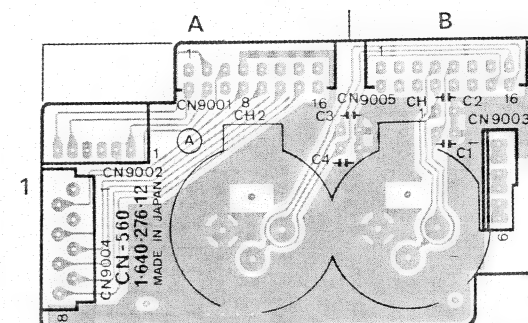
Audio XLR Connector

S/N 10101 and higher

CN-560 (1-640-276-12)

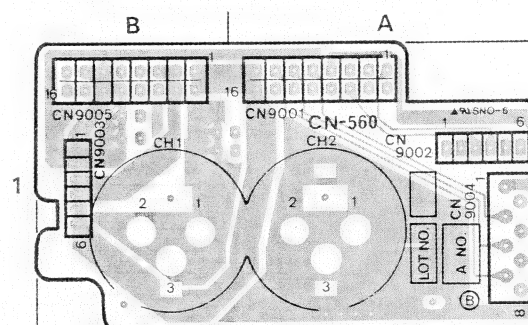
CN9001 A-1  
CN9002 A-1  
CN9003 B-1  
CN9004 A-1  
CN9005 B-1

A Side



**CN-560 -A SIDE-**  
1-640-276-12  
PVV-1P

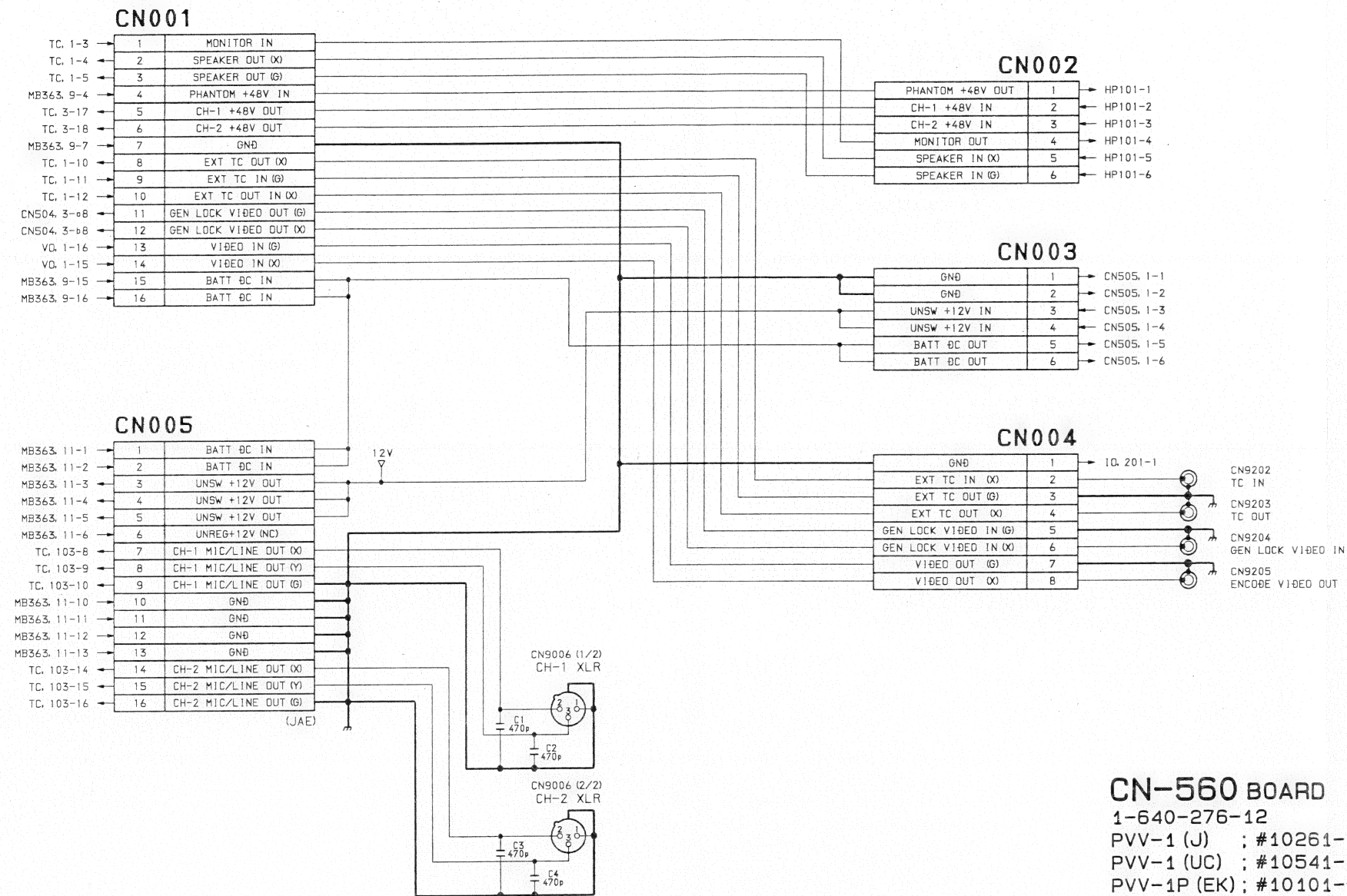
B Side



**CN-560 -B SIDE-**  
1-640-276-12  
PVV-1P

CN-560 BOARD  
Audio XLR Connector

S/N 10101 and higher





# SS-46P BOARD

Servo Control  
System Control

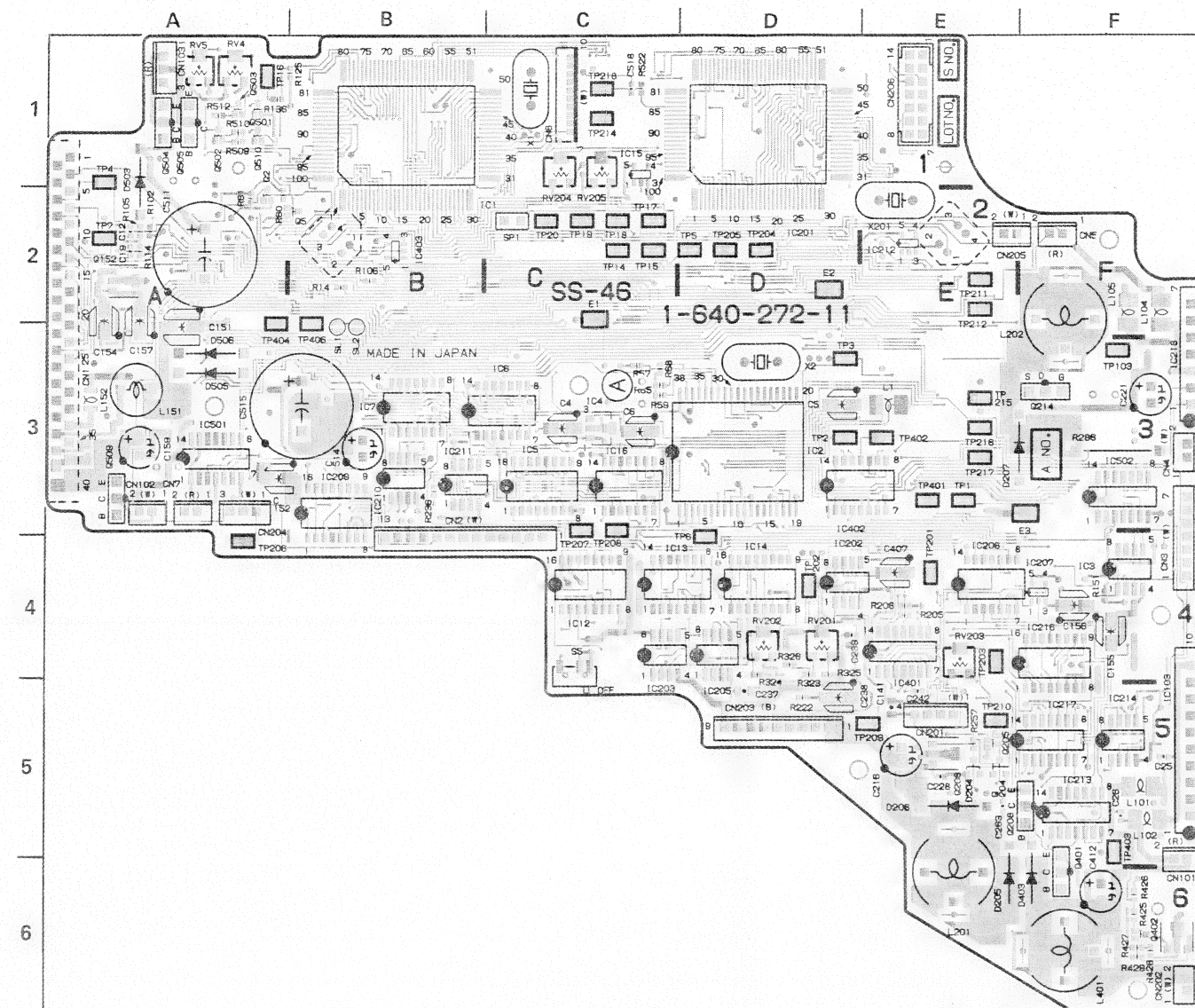
S/N 10001 through 10100

## SS-46/P (1-640-272-11)

CN1	A-1 (B)	IC214	F-5	SP1	C-2
CN2	B-3	IC216	F-4	S1	F-3 (B)
CN3	F-4	IC217	F-5	S2	A-2 (B)
CN4	F-3	IC218	F-3	S3	A-3 (B)
CN5	F-2	IC401	E-4	S4	C-3 (B)
CN6	C-1	IC402	D-3	S5	C-4
CN7	A-3	IC403	B-2	TH1	E-1 (B)
CN101	F-6	IC501	A-3		
CN102	A-3	IC502	F-3		
CN103	A-1				
CN201	E-5	PH1	B-2 (B)	TP1	E-3
CN202	F-6	PH2	E-2 (B)	TP2	D-3
CN203	D-5			TP3	D-3
CN204	A-3	Q1	C-3 (B)	TP4	A-1
CN205	E-2	Q2	A-1	TP5	D-2
CN206	E-1	Q3	E-2 (B)	TP6	D-4
		Q4	A-2 (B)	TP7	A-2
D1	C-3 (B)	Q5	B-2	TP14	C-2
D2	D-3 (B)	Q6	A-2 (B)	TP15	C-2
D105	F-5 (B)	Q7	A-2 (B)	TP16	A-1
D202	F-5 (B)	Q8	A-2 (B)	TP17	C-2
D204	E-5	Q9	A-3 (B)	TP18	C-2
D205	E-6	Q10	A-3 (B)	TP19	C-2
D206	E-5	Q11	A-2 (B)	TP20	C-2
D207	E-3	Q12	A-2 (B)	TP103	F-3
D401	E-4 (B)	Q13	F-5 (B)	TP201	E-4
D402	D-3 (B)	Q14	A-3 (B)	TP202	D-4
D403	F-6	Q15	B-3 (B)	TP203	E-4
D501	C-3 (B)	Q151	F-4 (B)	TP204	D-2
D502	A-1 (B)	Q152	A-2	TP205	D-2
D503	A-1	Q201	D-4 (B)	TP206	A-4
D504	A-1 (B)	Q202	C-3 (B)	TP207	C-4
D505	A-3	Q203	E-2 (B)	TP208	C-4
D506	A-3	Q204	E-5	TP209	E-5
D507	A-3 (B)	Q205	E-5	TP210	E-5
D508	B-3 (B)	Q206	E-5	TP211	E-2
D509	B-3 (B)	Q208	F-5	TP212	E-2
E1	C-2	Q209	E-5 (B)	TP214	C-1
E2	D-2	Q210	E-5 (B)	TP215	E-3
E3	F-3	Q211	F-3 (B)	TP216	E-3
IC1	B-1	Q212	F-3 (B)	TP217	E-3
IC2	D-3	Q213	D-4 (B)	TP218	C-1
IC3	F-4	Q214	F-3	TP401	E-3
IC4	C-3	Q215	F-3 (B)	TP402	E-3
IC5	C-3	Q401	F-5	TP403	F-5
IC6	C-3	Q402	F-6	TP404	A-3
IC7	B-3	Q403	F-6	TP406	B-3
IC12	C-4	Q501	A-1		
IC13	C-4	Q502	A-1	X1	C-1
IC14	D-4	Q503	A-1	X2	D-3
IC15	C-1	Q504	A-1	X201	E-2
IC16	C-3	Q505	A-1		
IC103	F-5	Q506	A-3 (B)		
IC201	D-2	Q507	A-3 (B)		
IC202	D-4	Q508	B-3 (B)		
IC203	C-5	Q509	A-3		
IC205	D-5	Q510	A-1		
IC206	E-4	RV4	A-1		
IC207	F-4	RV5	A-1		
IC209	B-3	RV201	D-4		
IC210	B-3	RV202	D-4		
IC211	B-3	RV203	E-4		
IC212	E-2	RV204	C-2		
IC213	F-5	RV205	C-2		
		RV206	D-5 (B)		

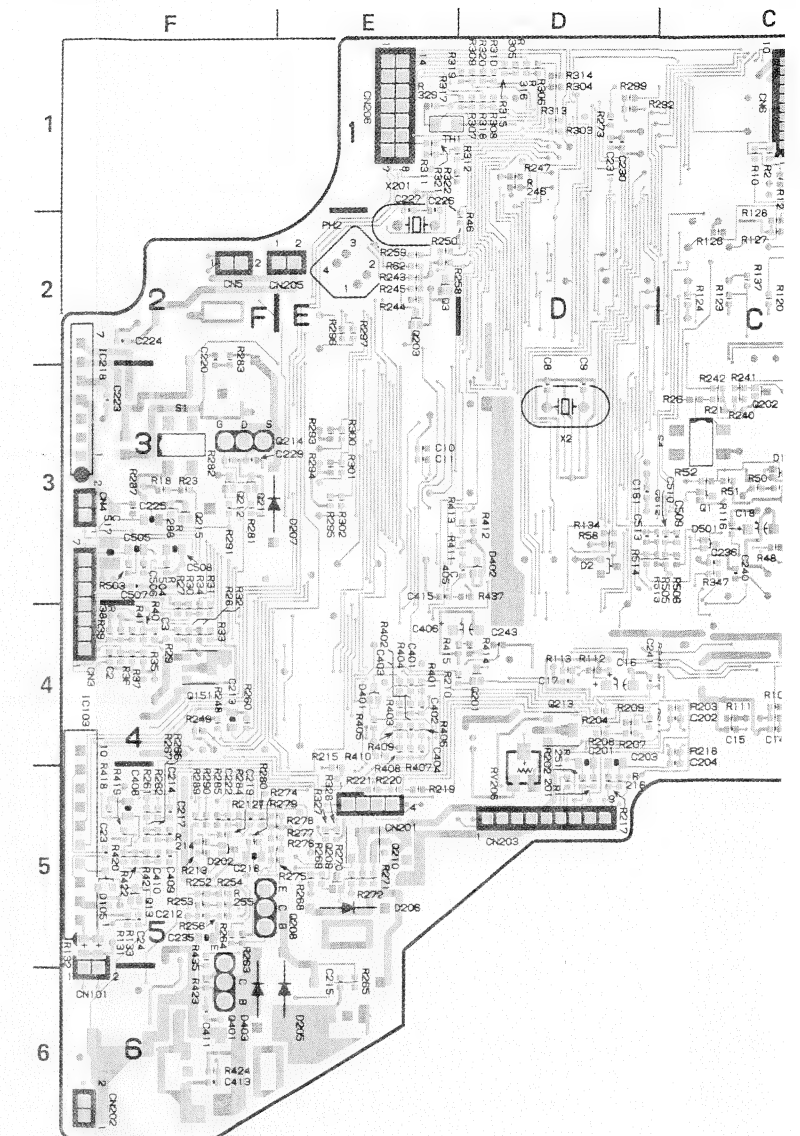
NOTE  
\*\* : \*\*A SIDE  
\*\*(B) : \*\*B SIDE

A Side

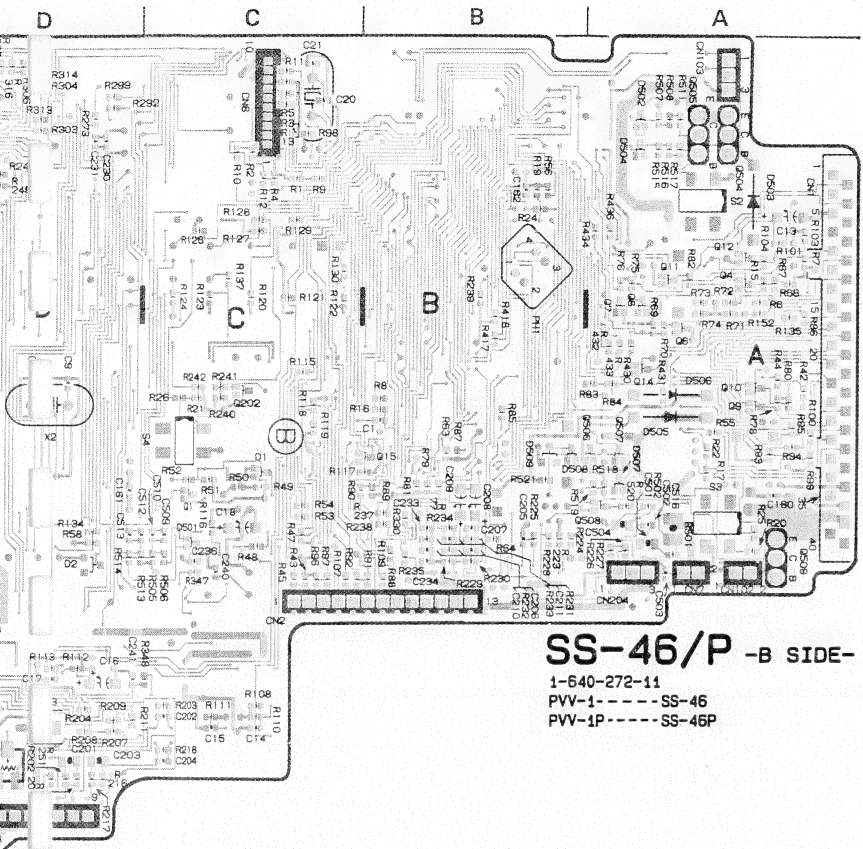


SS-46/P -A SIDE-  
1-640-272-11  
PVV-1-SS-46  
PVV-1P-SS-46P

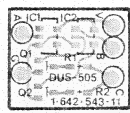
B Side



SS-46P (1/3)

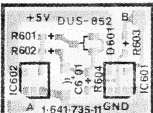


DUS-505 BOARD  
B Side



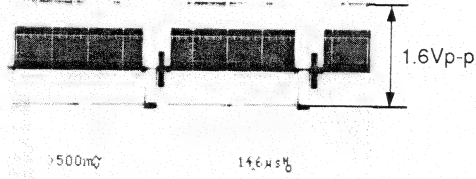
DUS-505  
-B SIDE-  
1-642-543-11  
PVV-1P

DUS-852 BOARD  
B Side

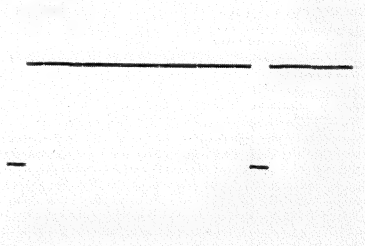


DUS-852  
-B SIDE-  
1-641-735-11  
PVV-1  
PVV-1P

① TP2 CHAR VIDEO DIAG mode



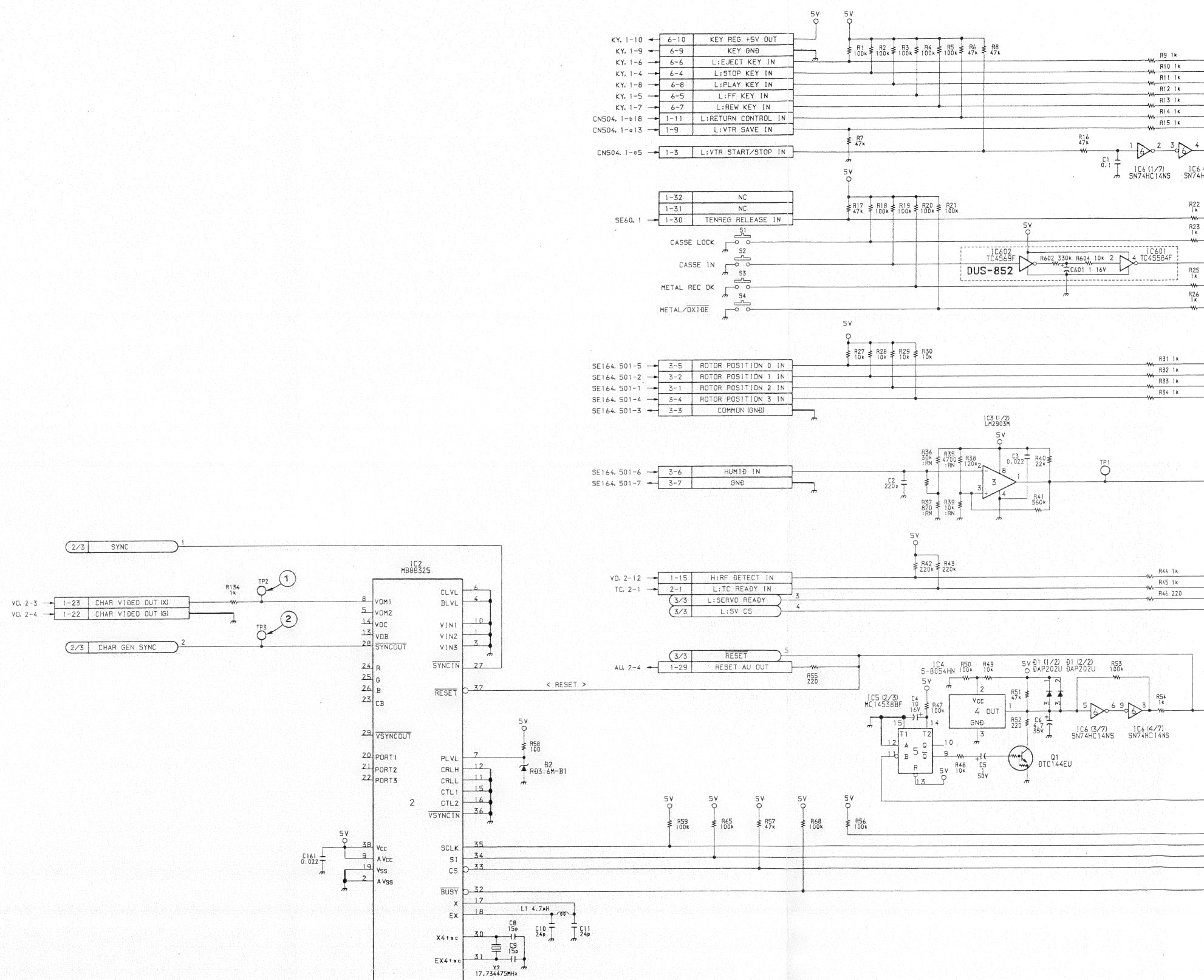
② TP3 CHAR GEN SYNC 5.5Vp-p STANDBY mode





SS-46P BOARD (1/3)  
System Control  
Character Generator

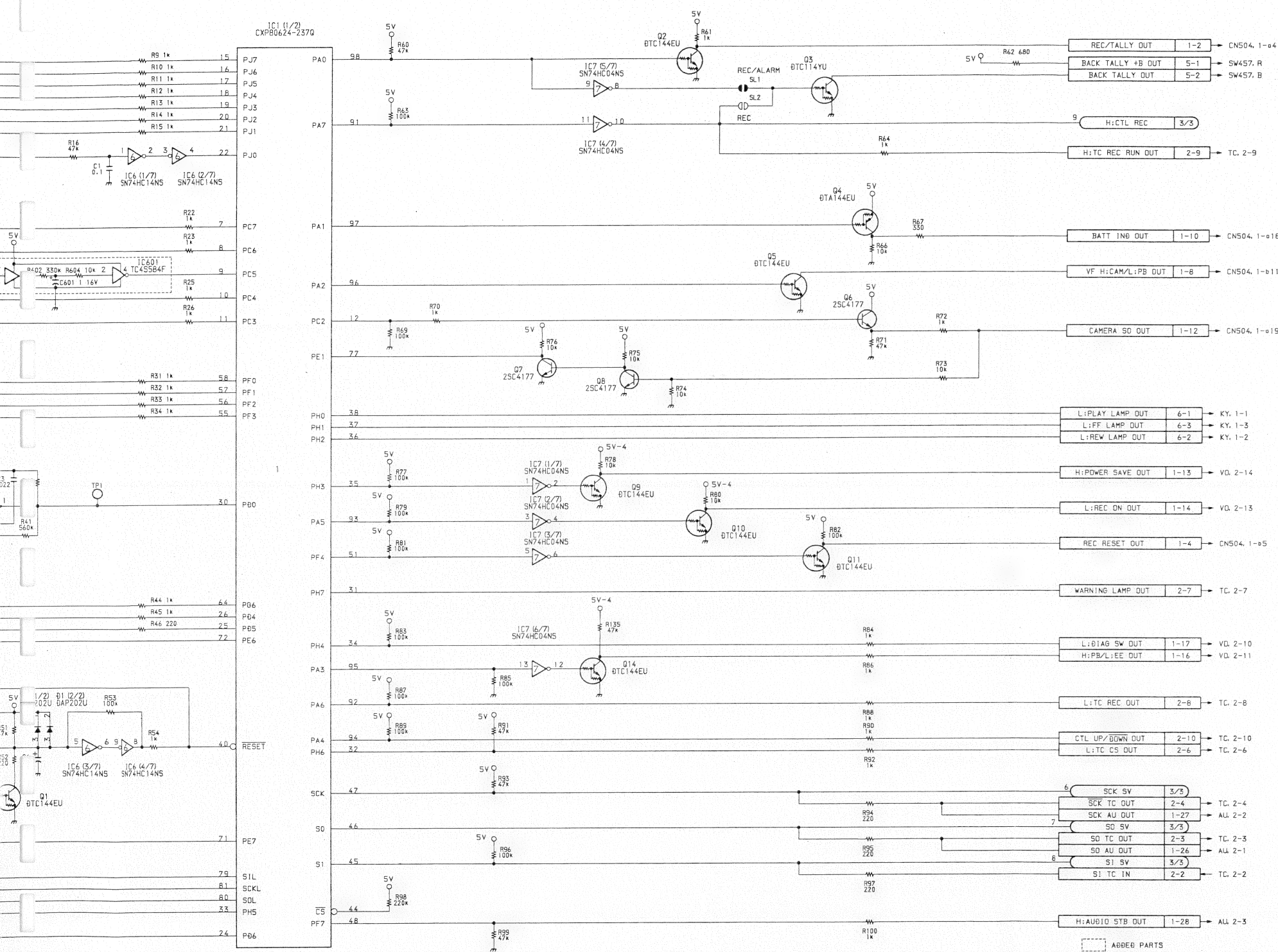
S/N 10001 through 10100



11-25 (a)

11-25 (a)





## SS-46P BOARD (1/3)

1-640-272-11

PVV-1P (EK) ; #10001-10100

# SS-46P BOARD

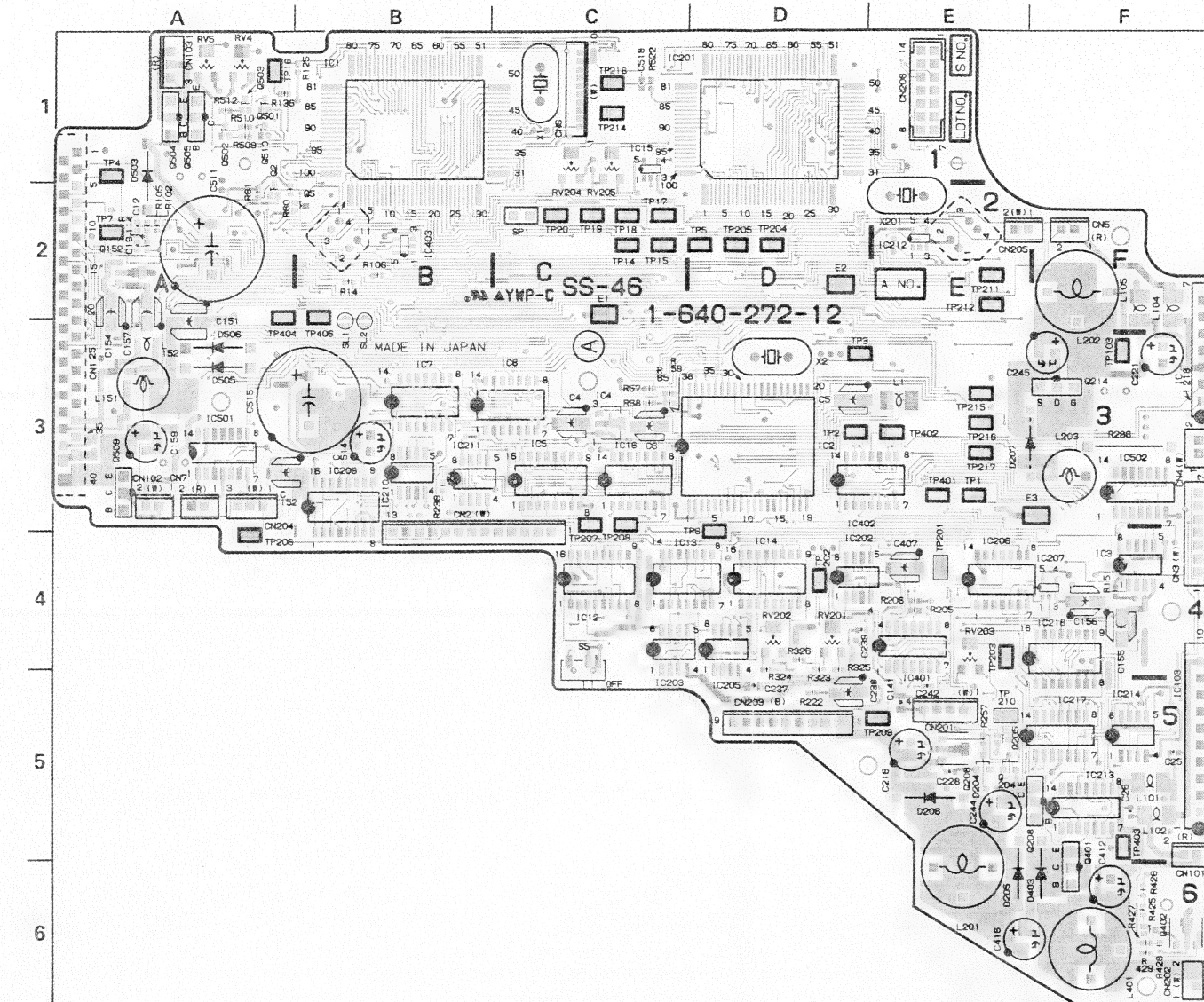
Servo Control  
System Control

S/N 10101 through 10500

## SS-46P (1-640-272-12)

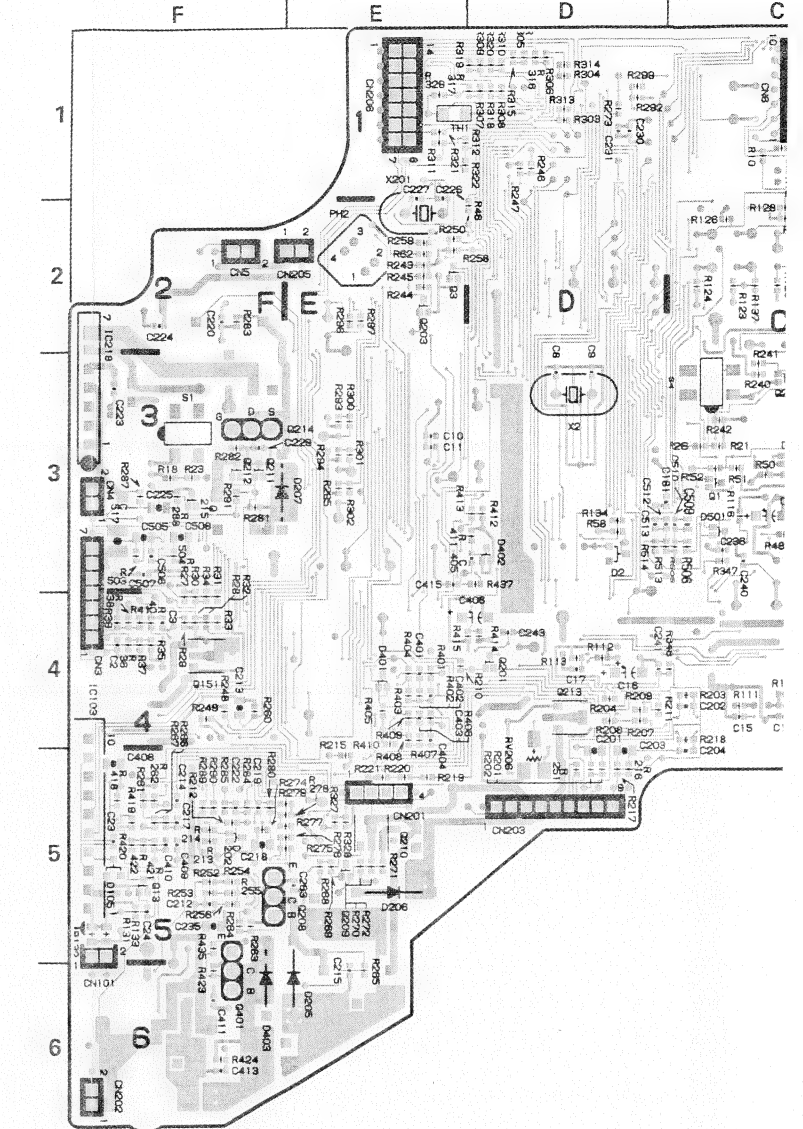
CN1	A-1 (B)	IC214	F-5	SP1	C-2
CN2	B-3	IC216	F-4	S1	F-3 (B)
CN3	F-4	IC217	F-5	S2	A-2 (B)
CN4	F-3	IC218	F-3	S3	A-3 (B)
CN5	F-2	IC401	E-4	S4	C-3 (B)
CN6	C-1	IC402	D-3	S5	C-4
CN7	A-3	IC403	B-2	TH1	E-1 (B)
CN101	F-6	IC501	A-3		
CN102	A-3	IC502	F-3		
CN103	A-1				
CN201	E-5	PH1	B-2 (B)	TP1	E-3
CN202	F-6	PH2	E-2 (B)	TP2	D-3
CN203	D-5			TP3	D-3
CN204	A-3	Q1	C-3 (B)	TP4	A-1
CN205	E-2	Q2	A-1	TP5	D-2
CN206	E-1	Q3	E-2 (B)	TP6	D-4
		Q4	A-2 (B)	TP7	A-2
D1	C-3 (B)	Q5	B-2	TP14	C-2
D2	D-3 (B)	Q6	A-2 (B)	TP15	C-2
D105	F-5 (B)	Q7	A-2 (B)	TP16	A-1
D202	F-5 (B)	Q8	A-2 (B)	TP17	C-2
D204	E-5	Q9	A-3 (B)	TP18	C-2
D205	E-6	Q10	A-3 (B)	TP19	C-2
D206	E-5	Q11	A-2 (B)	TP20	C-2
D207	E-3	Q12	A-2 (B)	TP103	F-3
D401	E-4 (B)	Q13	F-5 (B)	TP201	E-4
D402	D-3 (B)	Q14	A-3 (B)	TP202	D-4
D403	F-6	Q15	B-3 (B)	TP203	E-4
D501	C-3 (B)	Q151	F-4 (B)	TP204	D-2
D502	A-1 (B)	Q152	A-2	TP205	D-2
D503	A-1	Q201	D-4 (B)	TP206	A-4
D504	A-1 (B)	Q202	C-3 (B)	TP207	C-4
D505	A-3	Q203	E-2 (B)	TP208	C-4
D506	A-3	Q204	E-5	TP209	E-5
D507	A-3 (B)	Q205	E-5	TP210	E-5
D508	B-3 (B)	Q206	E-5	TP211	E-2
D509	B-3 (B)	Q208	F-5	TP212	E-2
		Q209	E-5 (B)	TP214	C-1
E1	C-2	Q210	E-5 (B)	TP215	E-3
E2	D-2	Q211	F-3 (B)	TP216	E-3
E3	F-3	Q212	F-3 (B)	TP217	E-3
		Q213	D-4 (B)	TP218	C-1
IC1	B-1	Q214	F-3	TP401	E-3
IC2	D-3	Q215	F-3 (B)	TP402	E-3
IC3	F-4	Q401	F-5	TP403	F-5
IC4	C-3	Q402	F-6	TP404	A-3
IC5	C-3	Q403	F-6	TP406	B-3
IC6	C-3	Q501	A-1		
IC7	B-3	Q502	A-1	X1	C-1
IC12	C-4	Q503	A-1	X2	D-3
IC13	C-4	Q504	A-1	X201	E-2
IC14	D-4	Q505	A-1		
IC15	C-1	Q506	A-3 (B)		
IC16	C-3	Q507	A-3 (B)		
IC103	F-5	Q508	B-3 (B)		
IC201	C-1	Q509	A-3		
IC202	D-4	Q510	A-1		
IC203	C-5				
IC205	D-5	RV4	A-1		
IC206	E-4	RV5	A-1		
IC207	F-4	RV201	D-4		
IC209	B-3	RV202	D-4		
IC210	B-3	RV203	E-4		
IC211	B-3	RV204	C-2		
IC212	E-2	RV205	C-2		
IC213	F-5	RV206	D-5 (B)		

A Side



SS-46P -A SIDE-  
1-640-272-12  
PVV-1P

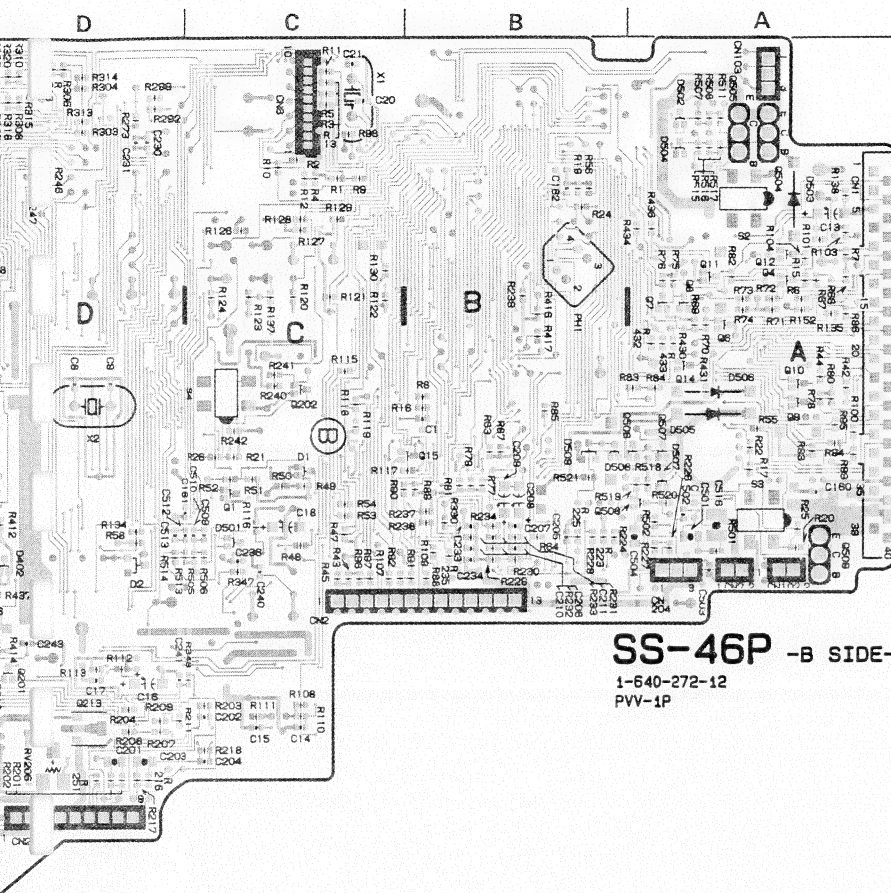
B Side



NOTE  
\* : \*A SIDE  
\*(B); \*B SIDE

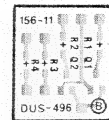


SS-46P (1/3)



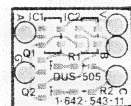
**SS-46P -B SIDE-**  
1-640-272-12  
PVV-1P

**DUS-496 BOARD**  
B Side



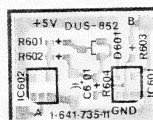
**DUS-496**  
-B SIDE-  
1-642-156-11  
PVV-1P

**DUS-505 BOARD**  
B Side



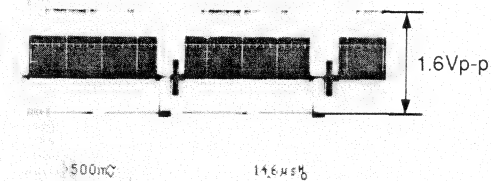
**DUS-505**  
-B SIDE-  
1-642-543-11  
PVV-1P

**DUS-852 BOARD**  
B Side

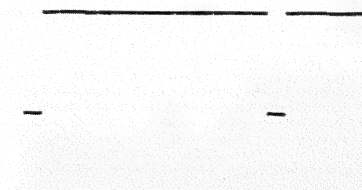


**DUS-852**  
-B SIDE-  
1-641-735-11  
PVV-1  
PVV-1P

① ■ TP2 CHAR VIDEO DIAG mode



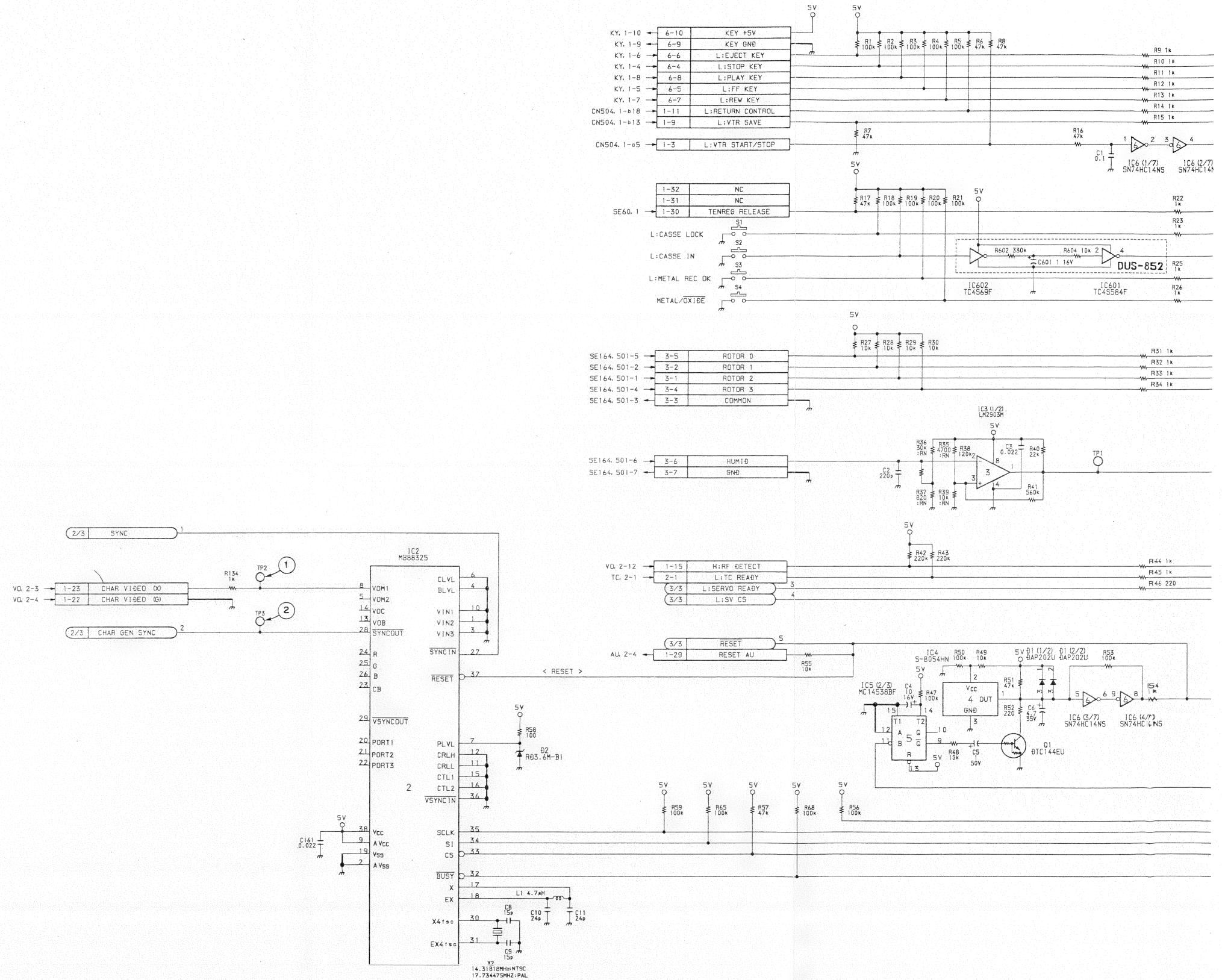
② ■ TP3 CHAR GEN SYNC 5.5Vp-p STANDBY mode



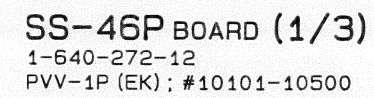
## SS-46P BOARD (1/3)

System Control  
Character Generator

S/N 10101 through 10500









## SS-46P BOARD

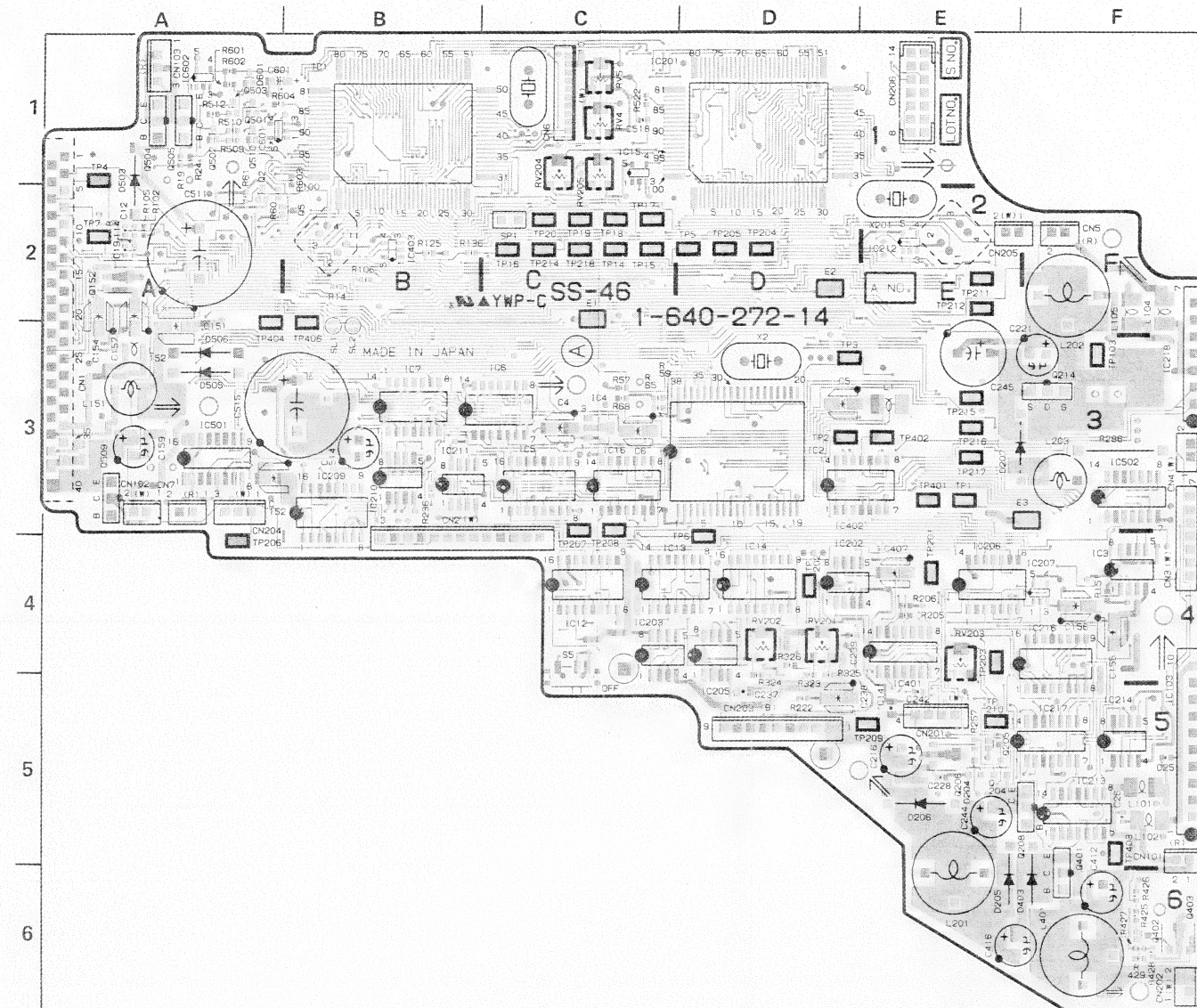
Servo Control  
System Control

S/N 10501 through 12390

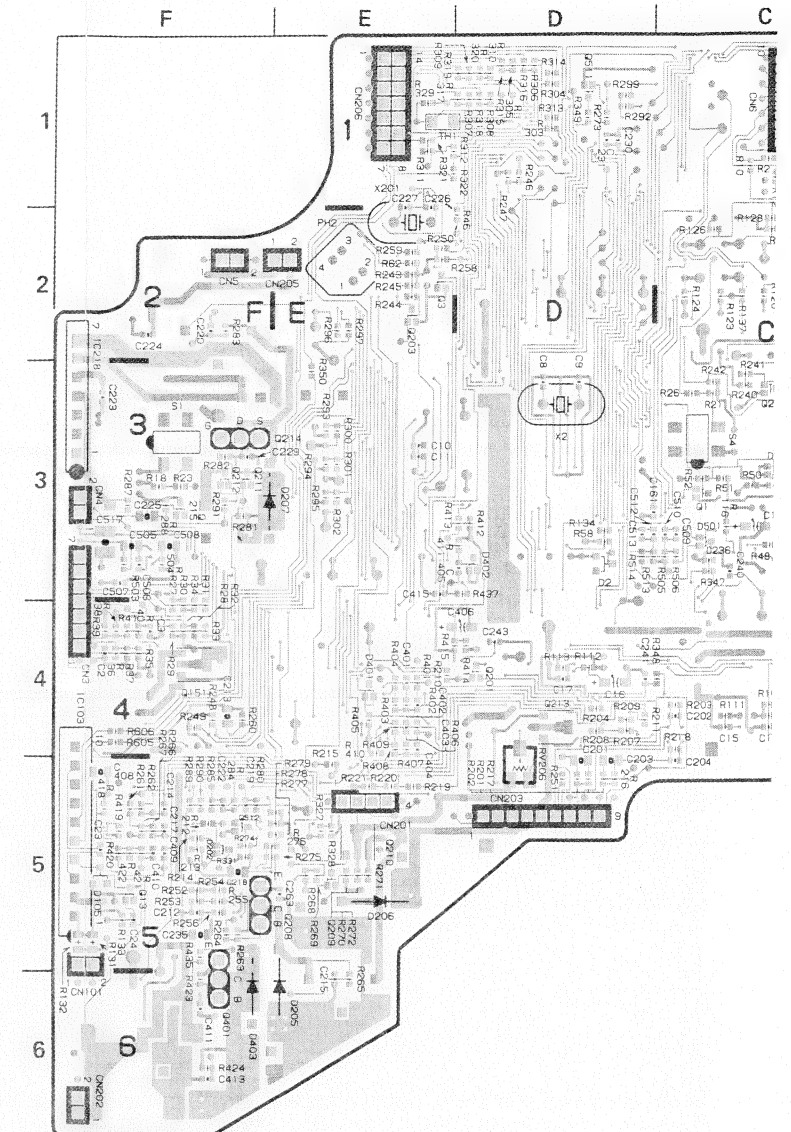
## SS-46P (1-640-272-14)

CN1	A-1 (B)	IC214	F-5	RV203	E-4
CN2	B-3	IC216	F-4	RV204	C-1
CN3	F-4	IC217	F-5	RV205	C-2
CN4	F-3	IC218	F-3	RV206	D-5 (B)
CN5	F-2	IC401	E-4		
CN6	C-1	IC402	D-3	SP1	C-2
CN7	A-3	IC403	B-2		
CN101	F-6	IC501	A-3	S1	F-3 (B)
CN102	A-3	IC502	F-3	S2	A-2 (B)
CN103	A-1	IC601	A-1	S3	A-3 (B)
CN201	E-5	IC602	A-1	S4	C-3 (B)
CN202	F-6			S5	C-4
CN203	D-5	PH1	B-2 (B)	TH1	E-1 (B)
CN204	A-4	PH2	E-2 (B)		
CN205	E-2				
CN206	E-1	Q1	C-3 (B)	TP1	E-3
		Q2	A-1	TP2	D-3
D1	C-3 (B)	Q3	E-2 (B)	TP3	D-3
D2	D-3 (B)	Q4	A-2 (B)	TP4	A-1
D105	F-5 (B)	Q5	B-2	TP5	D-2
D202	F-5 (B)	Q6	A-2 (B)	TP6	D-4
D204	E-5	Q7	A-2 (B)	TP7	A-2
D205	E-6	Q8	A-2 (B)	TP14	C-2
D206	E-5	Q9	A-3 (B)	TP15	C-2
D207	E-3	Q10	A-3 (B)	TP16	C-2
D401	E-4 (B)	Q11	A-2 (B)	TP17	C-2
D402	D-3 (B)	Q12	A-2 (B)	TP18	C-2
D403	F-6	Q13	F-5 (B)	TP19	C-2
D501	C-3 (B)	Q14	A-3 (B)	TP20	C-2
D502	A-1 (B)	Q15	B-3 (B)	TP103	F-3
D503	A-1	Q151	F-4 (B)	TP201	E-4
D504	A-1 (B)	Q152	A-2	TP202	D-4
D505	A-3	Q201	D-4 (B)	TP203	E-4
D506	A-3	Q202	C-3 (B)	TP204	D-2
D507	A-3 (B)	Q203	E-2 (B)	TP205	D-2
D508	B-3 (B)	Q204	E-5	TP206	A-4
D509	B-3 (B)	Q205	E-5	TP207	C-4
		Q206	E-5	TP208	C-4
E1	C-2	Q208	F-5	TP209	E-5
E2	D-2	Q209	E-5 (B)	TP210	E-5
E3	F-3	Q210	E-5 (B)	TP211	E-2
		Q211	F-3 (B)	TP212	E-2
IC1	B-1	Q212	F-3 (B)	TP214	C-2
IC2	D-3	Q213	D-4 (B)	TP215	E-3
IC3	F-4	Q214	F-3	TP216	E-3
IC4	C-3	Q215	F-3 (B)	TP217	E-3
IC5	C-3	Q401	F-5	TP218	C-2
IC6	C-3	Q402	F-6	TP401	E-3
IC7	B-3	Q403	F-6	TP402	E-3
IC12	C-4	Q501	A-1	TP403	F-5
IC13	D-4	Q502	A-1	TP404	A-3
IC14	D-4	Q503	A-1	TP406	B-3
IC15	C-1	Q504	A-1		
IC16	C-3	Q505	A-1	X1	C-1
IC103	F-5	Q506	B-3 (B)	X2	D-3
IC201	C-1	Q507	A-3 (B)	X201	E-2
IC202	D-4	Q508	B-3 (B)		
IC203	C-5	Q509	A-3		
IC205	D-5	Q510	A-1		
IC206	E-4	Q511	D-1 (B)		
IC207	F-4	Q512	F-5 (B)		
IC209	B-3				
IC210	B-3	RV4	C-1		
IC211	B-3	RV5	C-1		
IC212	E-2	RV201	D-4		
IC213	F-5	RV202	D-4		

A Side

SS-46P -A SIDE-  
1-640-272-14  
PW-1P

B Side

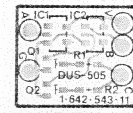
NOTE  
\* : \*A SIDE  
\*(B) : \*B SIDE



## SS-46P (1/3)

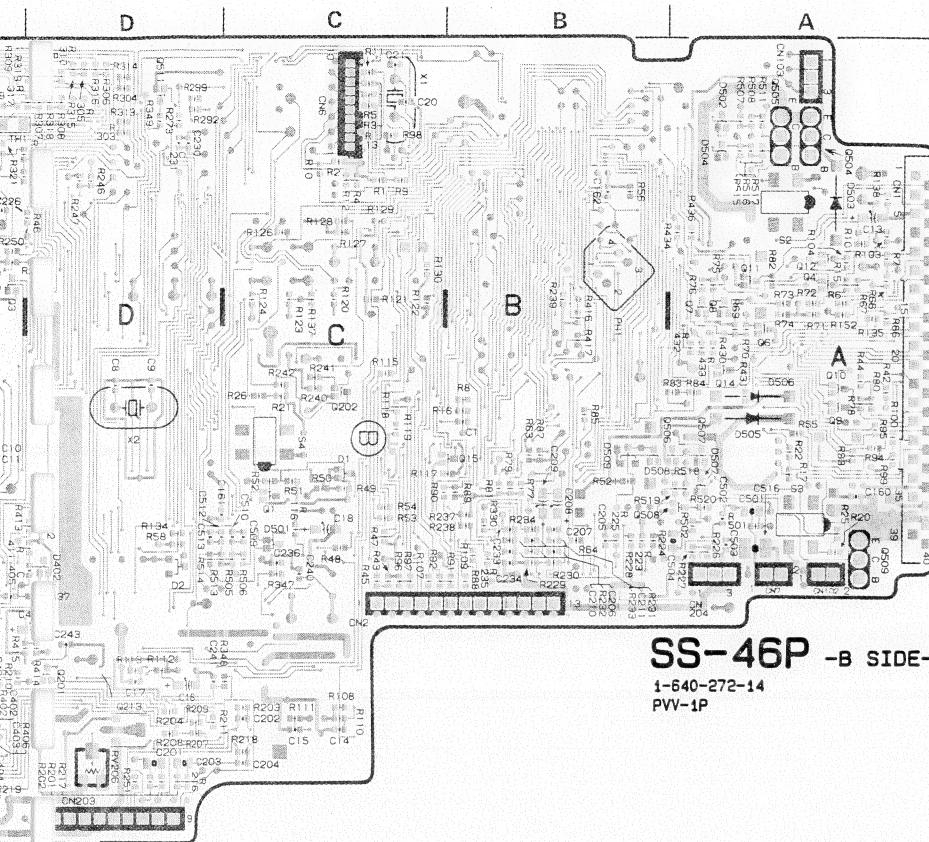
## DUS-505 BOARD

B Side



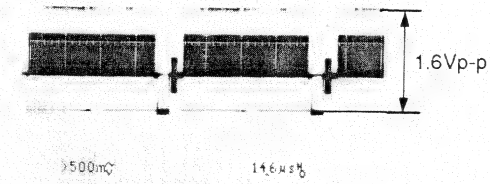
## DUS-505

-B SIDE-  
1-642-543-11  
PVV-1P

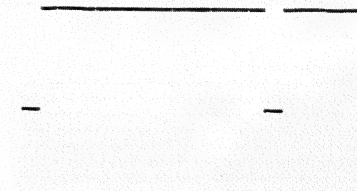


SS-46P -B SIDE-  
1-640-272-14  
PVV-1P

① ■ TP2 CHAR VIDEO DIAG mode

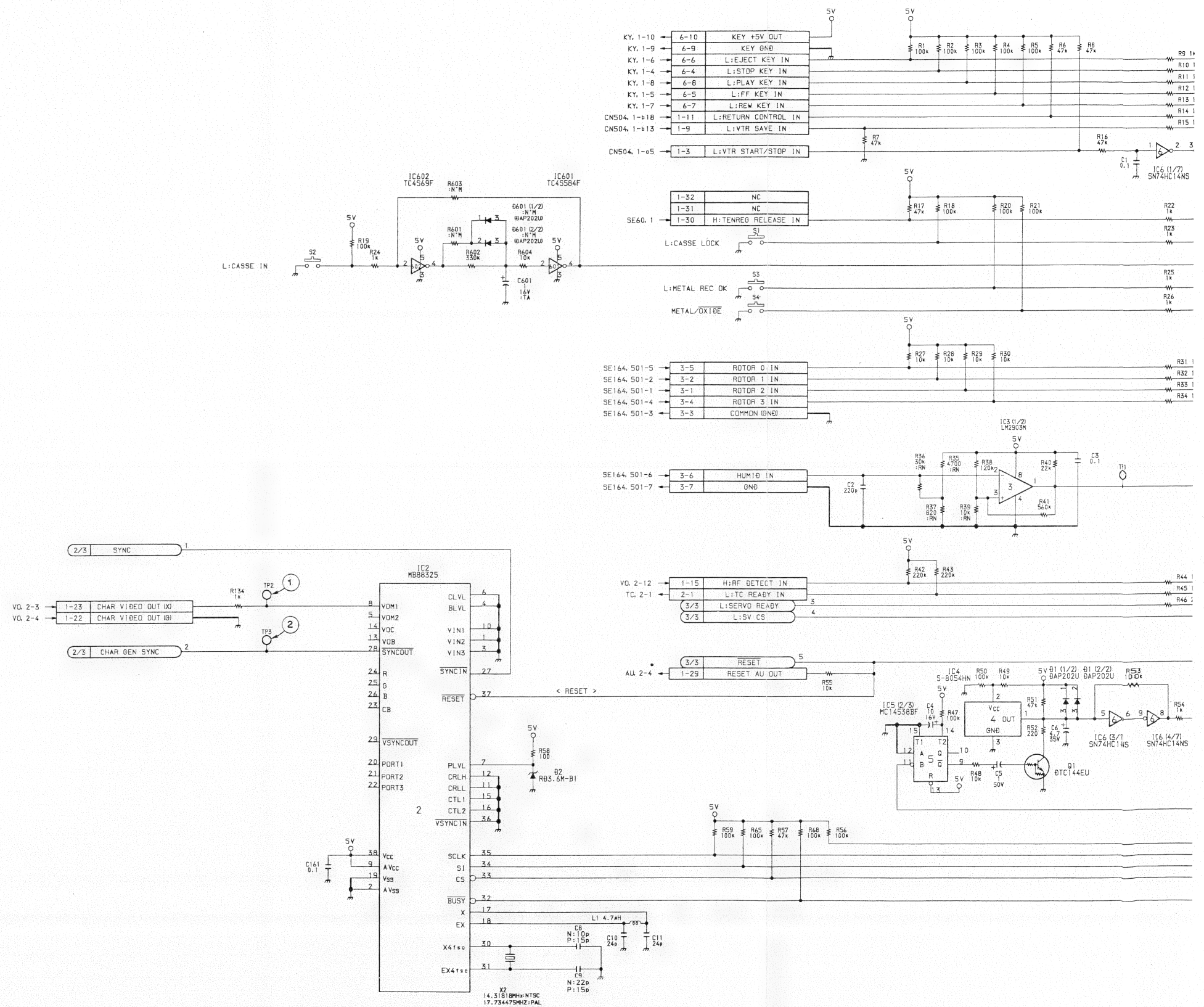


② ■ TP3 CHAR GEN SYNC 5.5Vp-p STANDBY mode

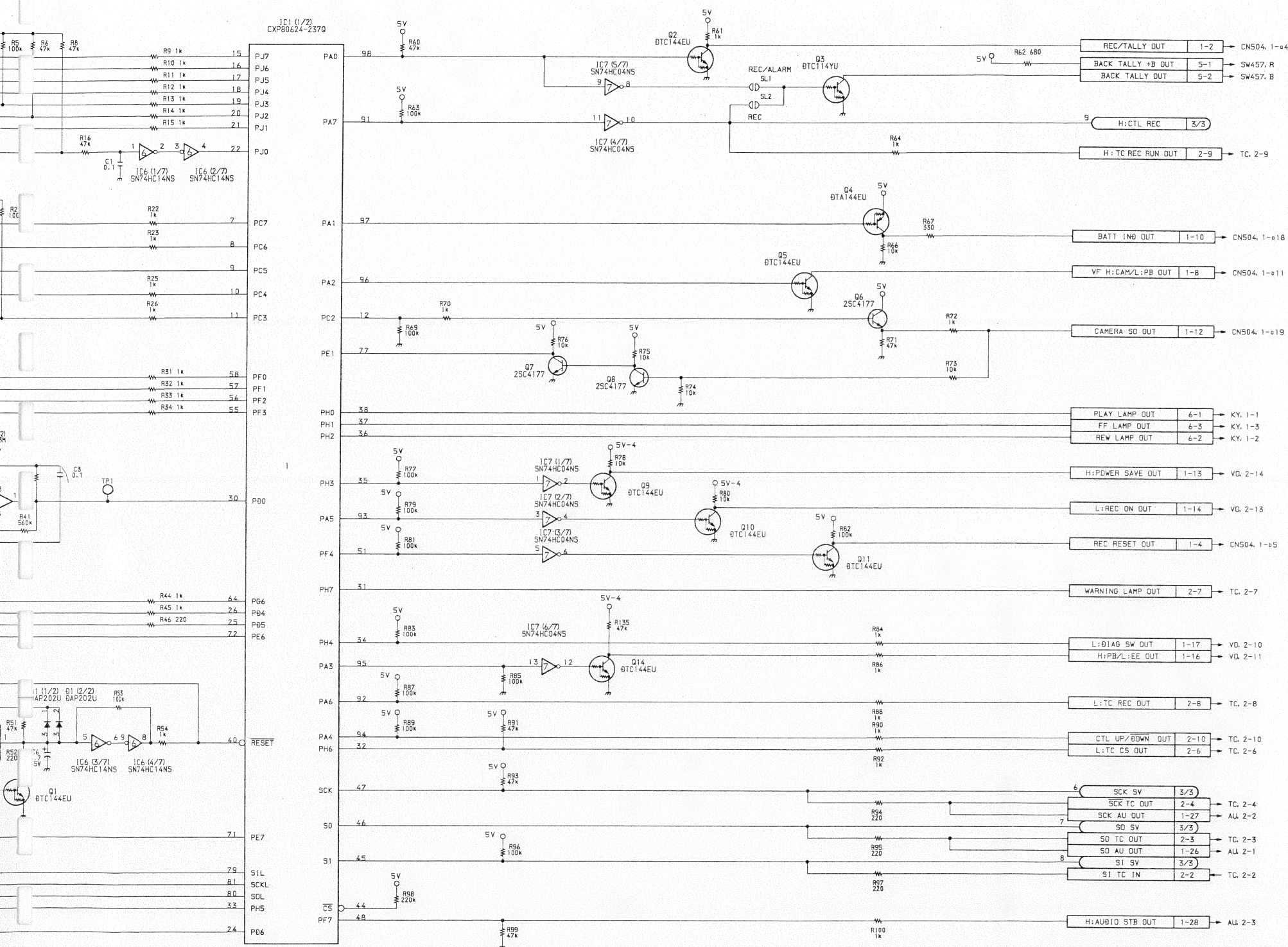


S/N 10501 through 12390

System Control  
Character Generator







SS-46P BOARD (1/3)  
1-640-272-14  
PVV-1P (EK) : #10501-12390



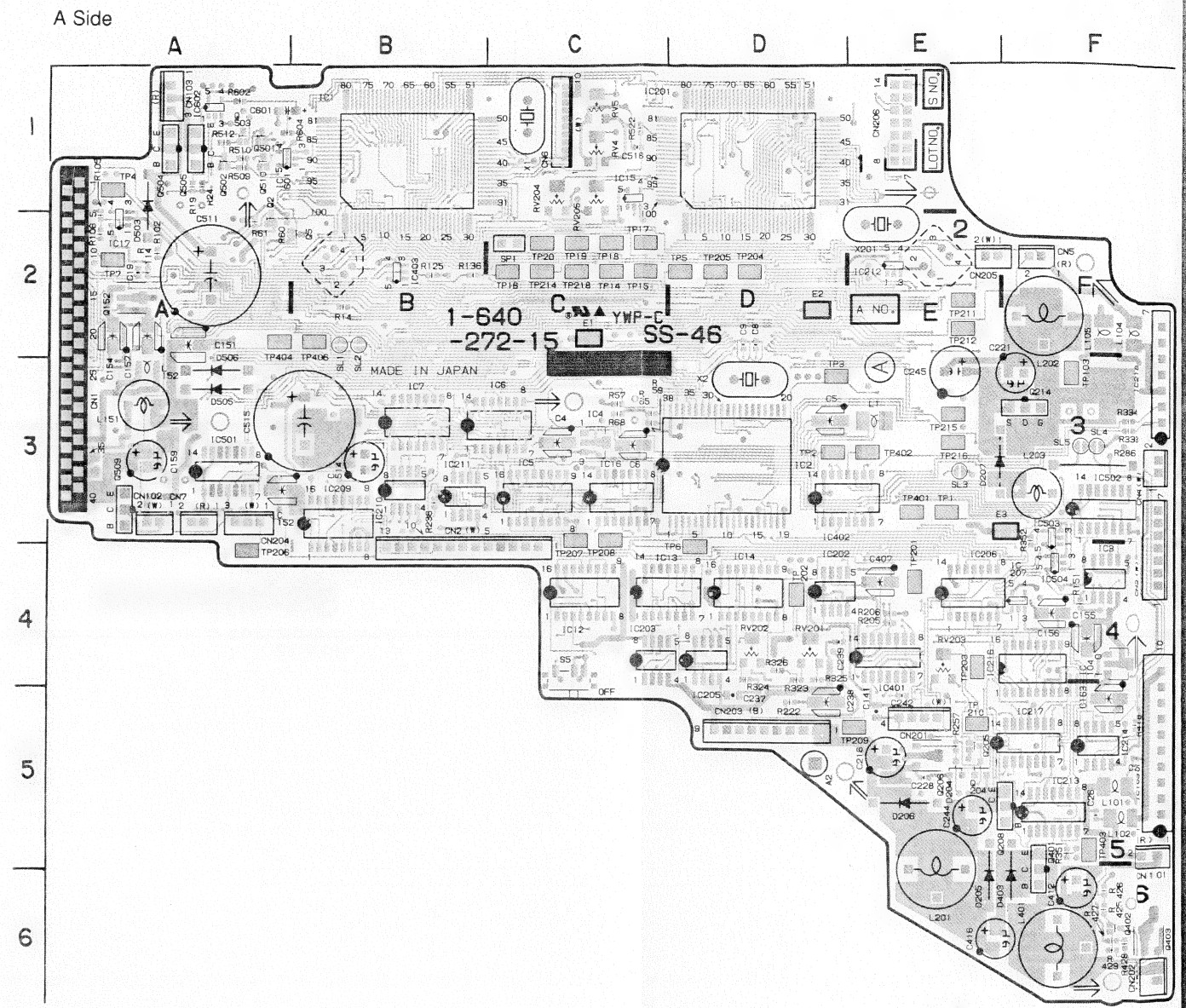
SS-46P BOARD  
Servo Control  
System Control

S/N 12391 and higher

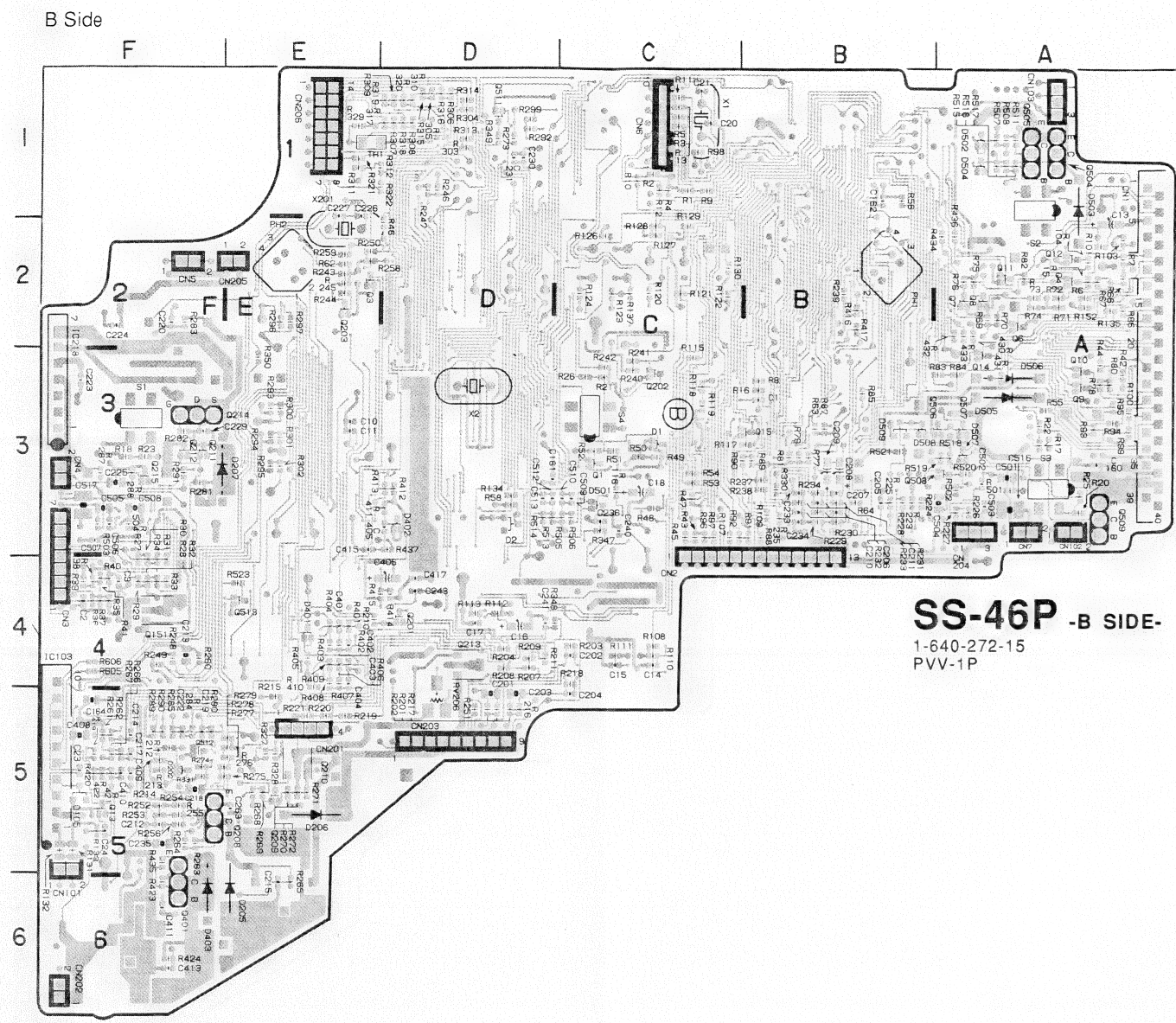
SS-46P (1-640-272-15)

CN1	A-1 (B)	IC214	F-5	SP1	C-2
CN2	B-3	IC216	E-4	S1	F-3 (B)
CN3	F-4	IC217	F-5	S2	A-2 (B)
CN4	F-3	IC218	F-3	S3	A-3 (B)
CN5	F-2	IC401	E-5	S4	C-3 (B)
CN6	C-1	IC402	D-3	S5	C-4
CN7	A-3	IC403	B-2	TH1	E-1 (B)
CN101	F-6	IC501	A-3	TP1	E-3
CN102	A-3	IC502	F-3	TP2	D-3
CN103	A-1			TP3	D-3
CN201	E-5	PH1	B-2 (B)	TP4	A-1
CN202	F-6	PH2	E-2 (B)	TP5	D-2
CN203	D-5			TP6	D-4
CN204	A-3	Q1	C-3 (B)	TP7	A-2
CN205	E-2	Q2	A-1	TP14	C-2
CN206	E-1	Q3	E-2 (B)	TP15	C-2
		Q4	A-2 (B)	TP16	C-2
		Q5	B-2	TP17	C-2
D1	C-3 (B)	Q6	A-2 (B)	TP18	C-2
D2	D-3 (B)	Q7	A-2 (B)	TP19	C-2
D105	F-5 (B)	Q8	A-2 (B)	TP20	C-2
D202	F-5 (B)	Q9	A-3 (B)	TP103	F-3
D204	E-5	Q10	A-3 (B)	TP201	E-4
D205	E-6	Q11	A-2 (B)	TP202	D-4
D206	E-5	Q12	A-2 (B)	TP203	E-4
D207	E-3	Q13	F-5 (B)	TP204	D-2
D401	E-4 (B)	Q14	A-3 (B)	TP205	D-2
D402	D-3 (B)	Q15	B-3 (B)	TP206	A-4
D403	F-6	Q151	F-4 (B)	TP207	C-4
D501	C-3 (B)	Q152	A-2	TP208	C-4
D502	A-1 (B)	Q201	D-4 (B)	TP209	E-5
D503	A-2	Q202	C-3 (B)	TP210	E-5
D504	A-1 (B)	Q203	E-2 (B)	TP211	E-2
D505	A-3	Q204	E-5	TP212	E-2
D506	A-3	Q205	E-5	TP214	C-2
D507	A-3 (B)	Q206	E-5	TP215	E-3
D508	B-3 (B)	Q208	F-5	TP216	E-3
D509	B-3 (B)	Q209	E-5 (B)	TP218	C-2
		Q210	E-5 (B)	TP401	E-3
E1	C-2	Q211	F-3 (B)	TP402	E-3
E2	D-2	Q212	F-3 (B)	TP403	F-5
E3	F-3	Q213	D-4 (B)	TP404	A-3
		Q214	F-3	TP406	B-3
		Q215	F-3 (B)		
IC1	B-1	Q401	F-5	X1	C-1
IC2	D-3	Q402	F-6	X2	D-3
IC3	F-4	Q403	F-6	X201	E-2
IC4	C-3	Q501	A-1		
IC5	C-3	Q502	A-1		
IC6	C-3	Q503	A-1		
IC7	B-3	Q504	A-1		
IC12	C-4	Q505	A-1		
IC13	C-4	Q506	A-3 (B)		
IC14	D-4	Q507	A-3 (B)		
IC15	C-1	Q508	B-3 (B)		
IC16	C-3	Q509	A-3		
IC103	F-5	Q510	A-1		
IC201	C-1				
IC202	D-4				
IC203	C-4				
IC205	D-5	RV4	C-1		
IC206	E-4	RV5	C-1		
IC207	F-4	RV201	D-4		
IC209	B-3	RV202	D-4		
IC210	B-3	RV203	E-4		
IC211	B-3	RV204	C-1		
IC212	E-2	RV205	C-2		
IC213	F-5	RV206	D-5 (B)		

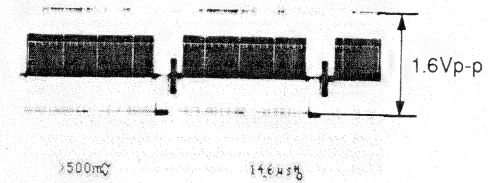
NOTE  
.. :.. A SIDE  
.. (B); .. B SIDE



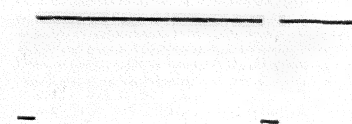




TP2 CHAR VIDEO DIAG mode



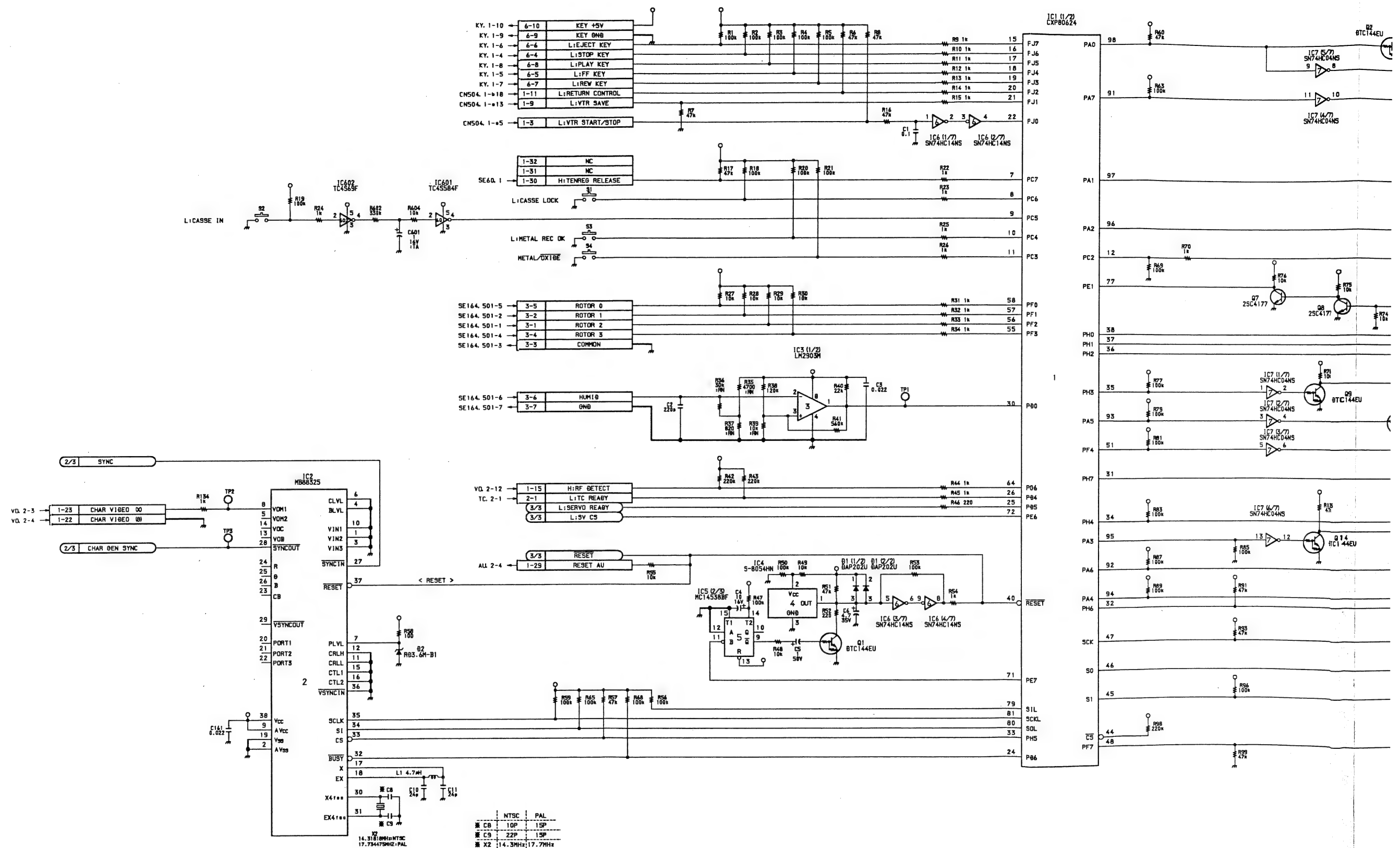
TP3 CHAR GEN SYNC 5.5Vp-p STANDBY mode





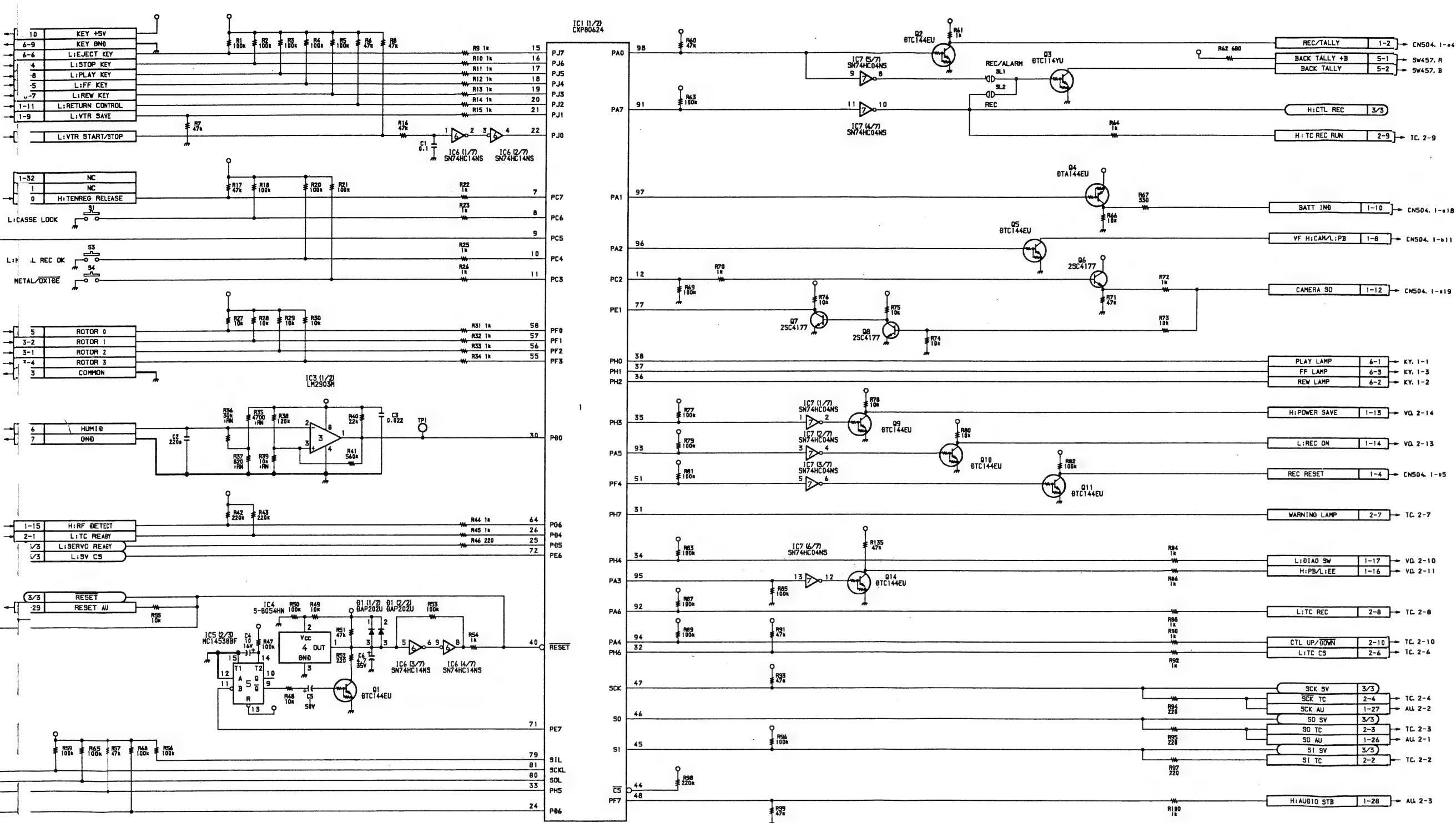
# SS-46P BOARD (1/3) System Control Character Generator

S/N 12391 and higher



11 - 25 (d)

11 - 25 (d)



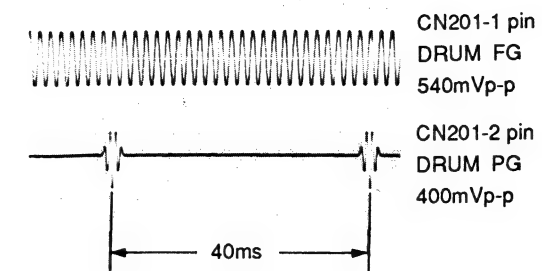
- \* A0 22-296 88 (1-704-313-13)
- \* A1 55-44 88 (1-640-272-19)
- \* A2 2-2-271-272 (1-369-317-01)
- \* A5 0P2509-00-
- \* A6 0P2509-00-
- \* A11 2-2-271-272 (1-369-317-01)

**SS-46P BOARD (1/3)**  
1-640-272-15  
PVV-1P (UK) ; #12391-

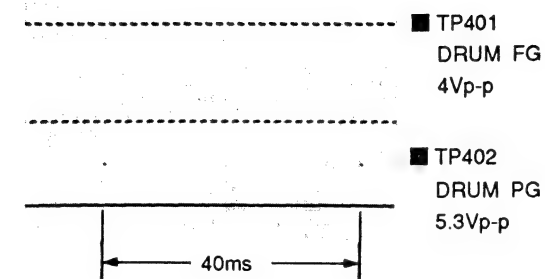
SS-46P (2/3)

S/N 10001 through 10100

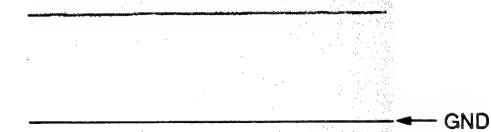
① REC mode



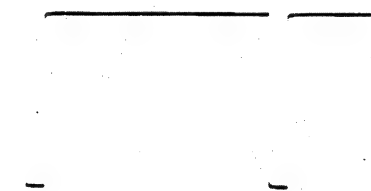
② REC mode



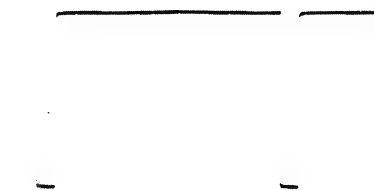
③ TP403 DRUM DRIVE 6.0Vdc REC mode



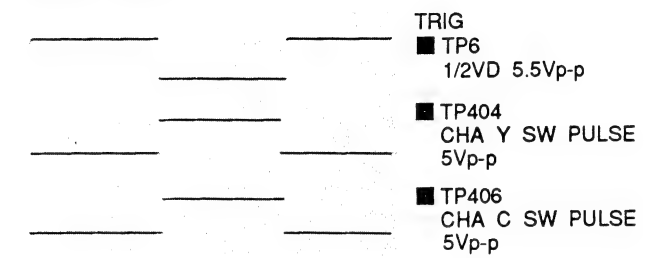
④ TP4 COMP SYNC 5Vp-p REC mode



⑤ TP5 REF SYNC 5Vp-p REC mode

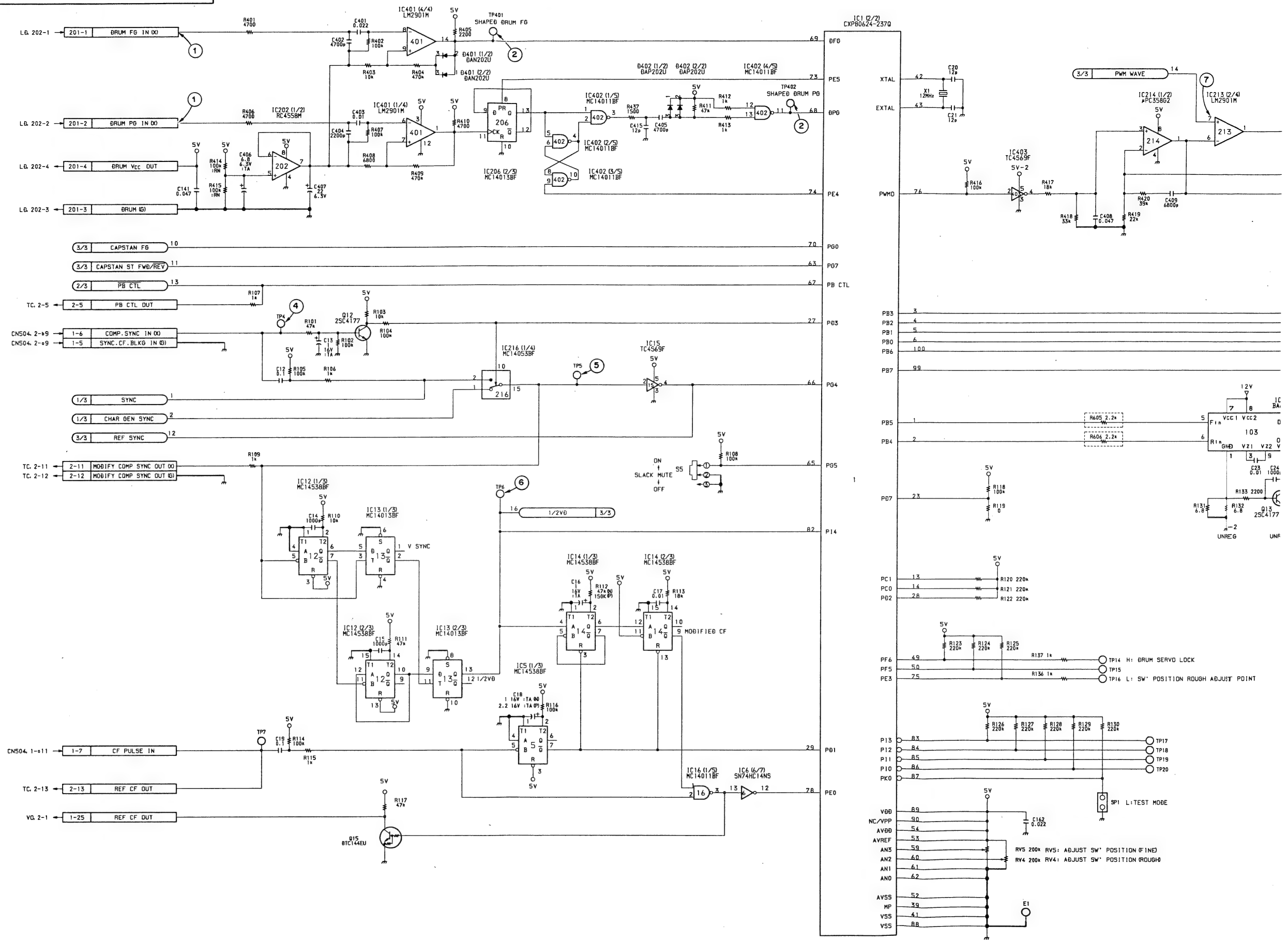


⑥ REC mode



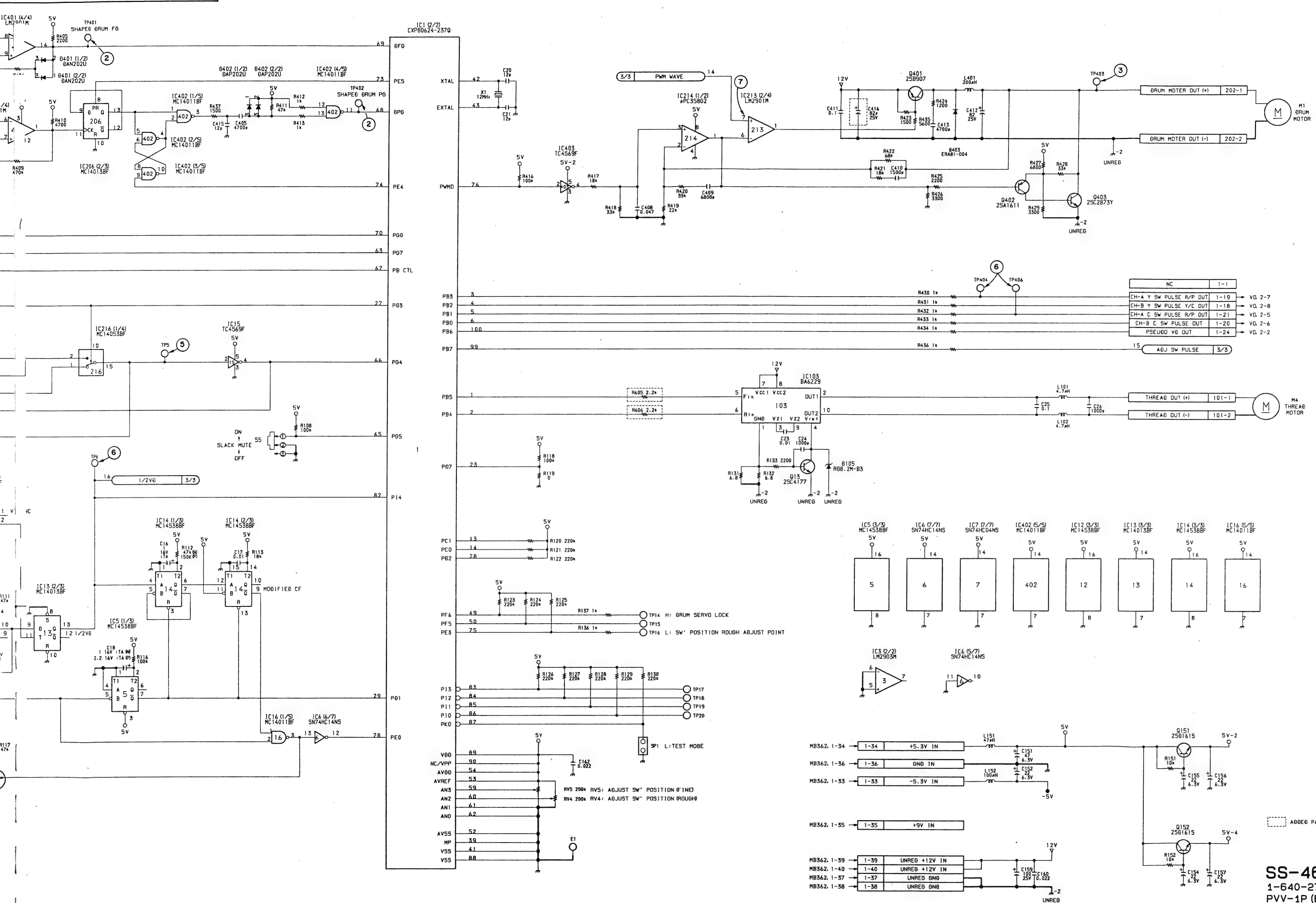
⑦ IC213-5,7,9 PWM SAW 1.5Vp-p





11-27 (a)

11-27 (a)



SS-46P BOARD (2/3)  
1-640-272-11  
PVV-1P (EK) ; #10001-1010

11-27 (a)

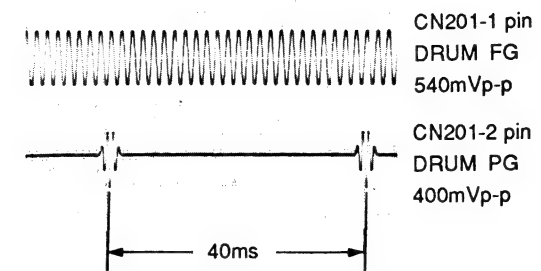
11-27 (b)



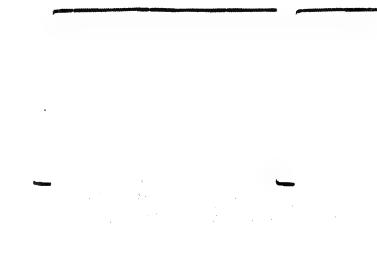
SS-46P (2/3)

S/N 10101 through 10500

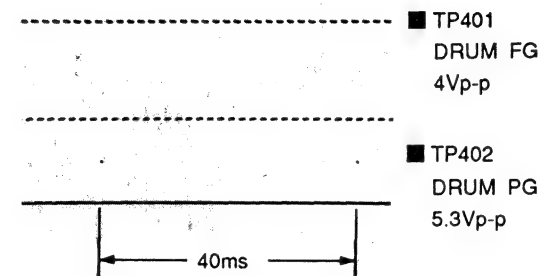
① REC mode



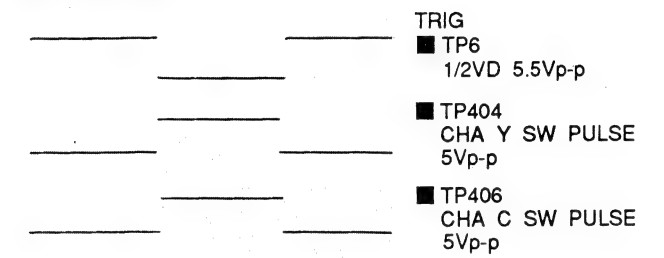
⑤ ■ TP5 REF SYNC 5Vp-p REC mode



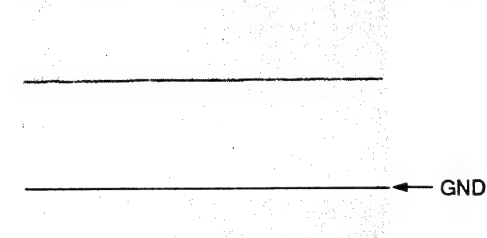
② REC mode



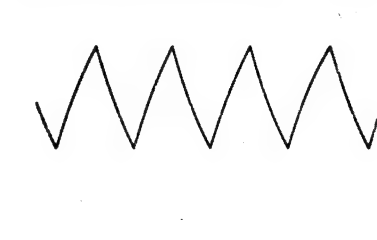
⑥ REC mode



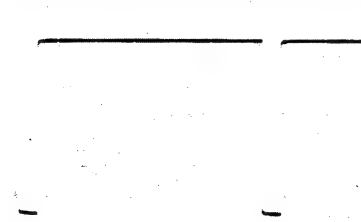
③ ■ TP403 DRUM DRIVE 6.0Vdc REC mode

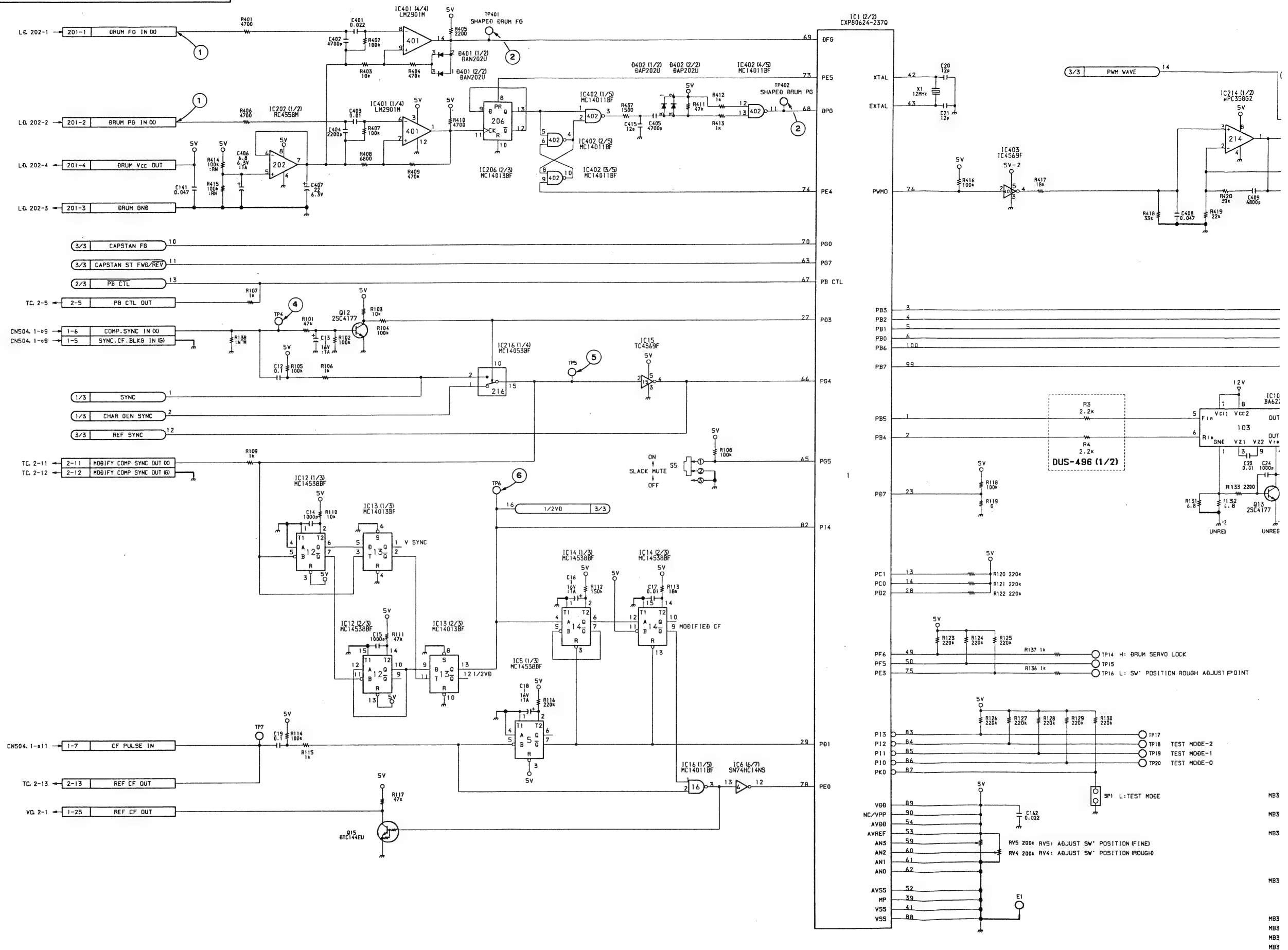


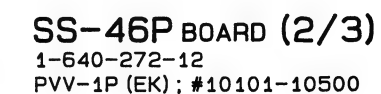
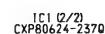
⑦ IC213-5,7,9 PWM SAW 1.5Vp-p



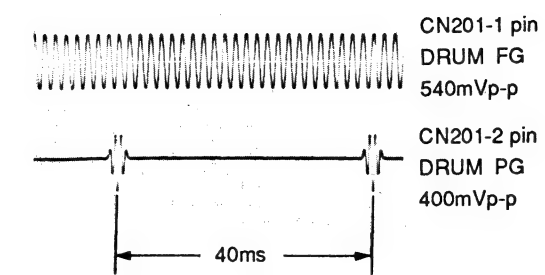
④ ■ TP4 COMP SYNC 5Vp-p REC mode



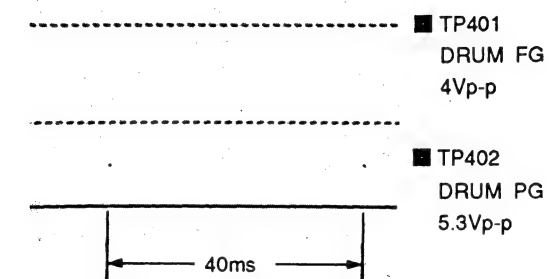




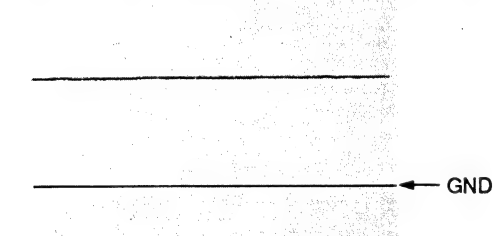
① REC mode



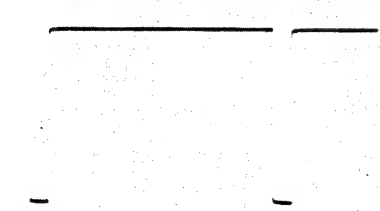
② REC mode



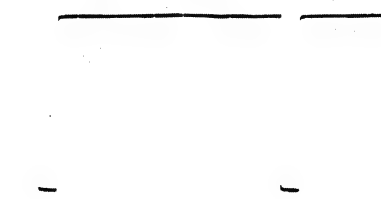
③ TP403 DRUM DRIVE 6.0Vdc REC mode



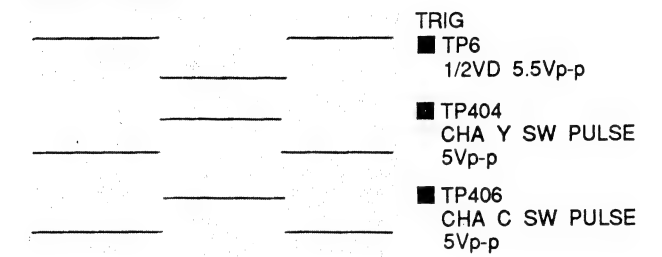
④ TP4 COMP SYNC 5Vp-p REC mode



⑤ TP5 REF SYNC 5Vp-p REC mode

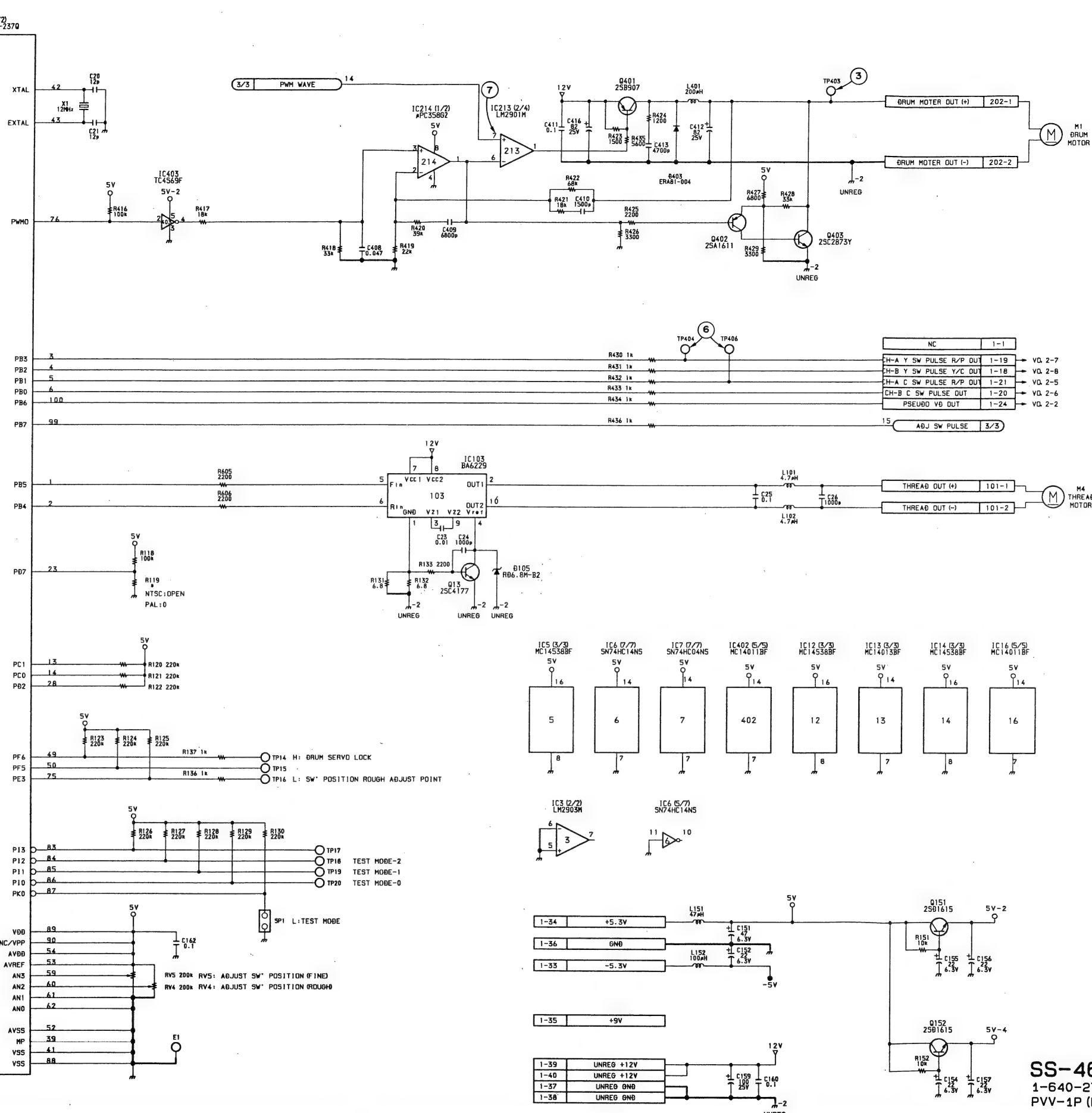
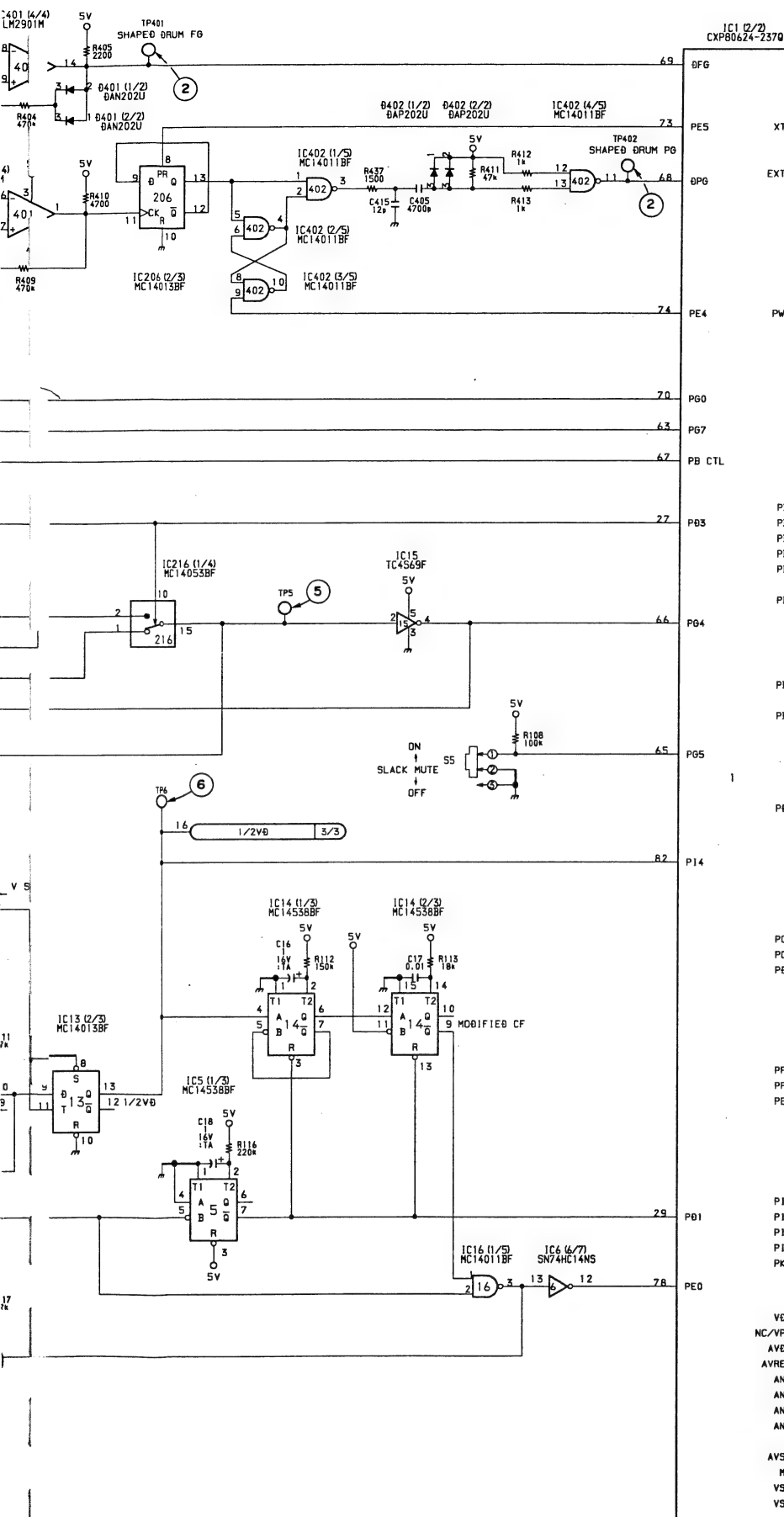


⑥ REC mode



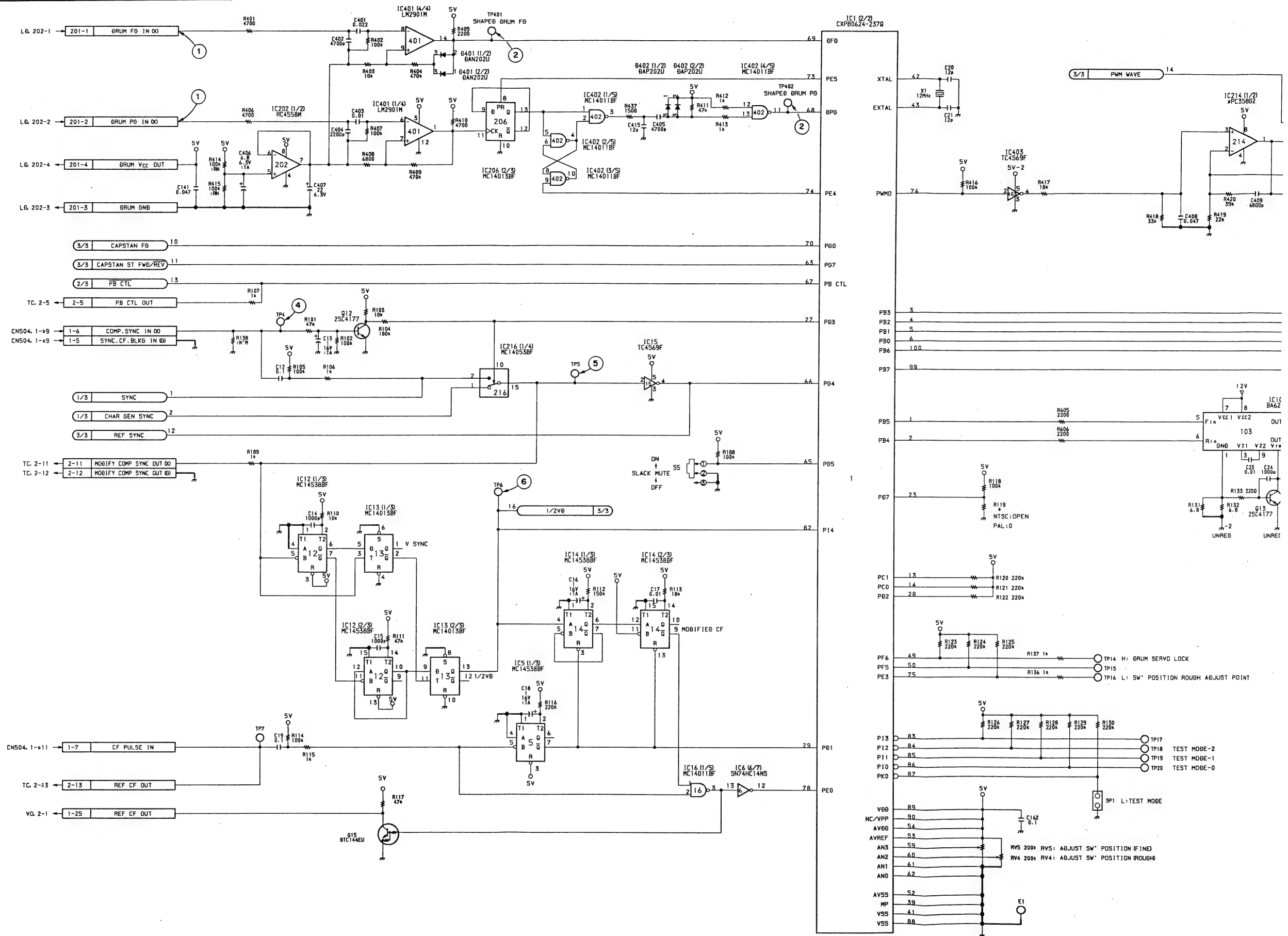
⑦ IC213-5,7,9 PWM SAW 1.5Vp-p





SS-46P BOARD (2/3)  
1-640-272-14  
PVV-1P (EK) ; #10501-12390

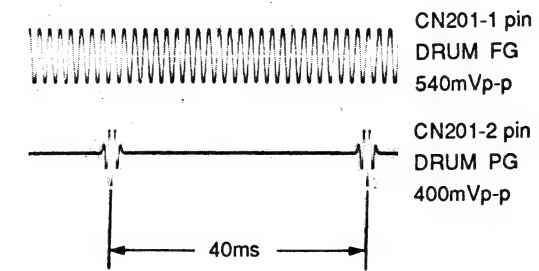




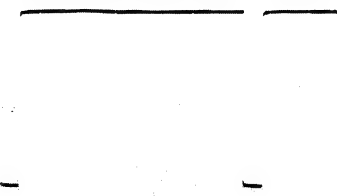
SS-46P (2/3)

S/N 12391 and higher

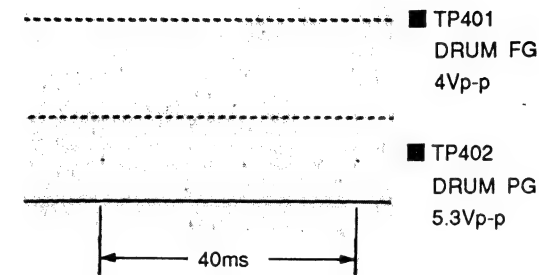
REC mode



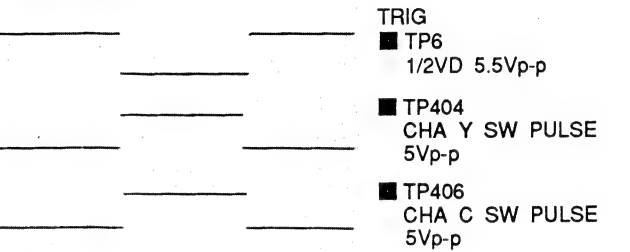
■ TP5 REF SYNC 5Vp-p REC mode



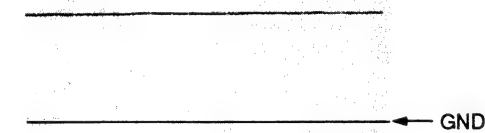
REC mode



REC mode



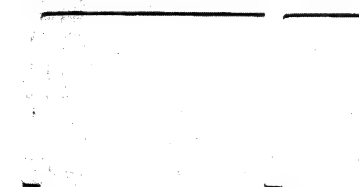
■ TP403 DRUM DRIVE 6.0Vdc REC mode



IC213-5,7,9 PWM SAW 1.5Vp-p

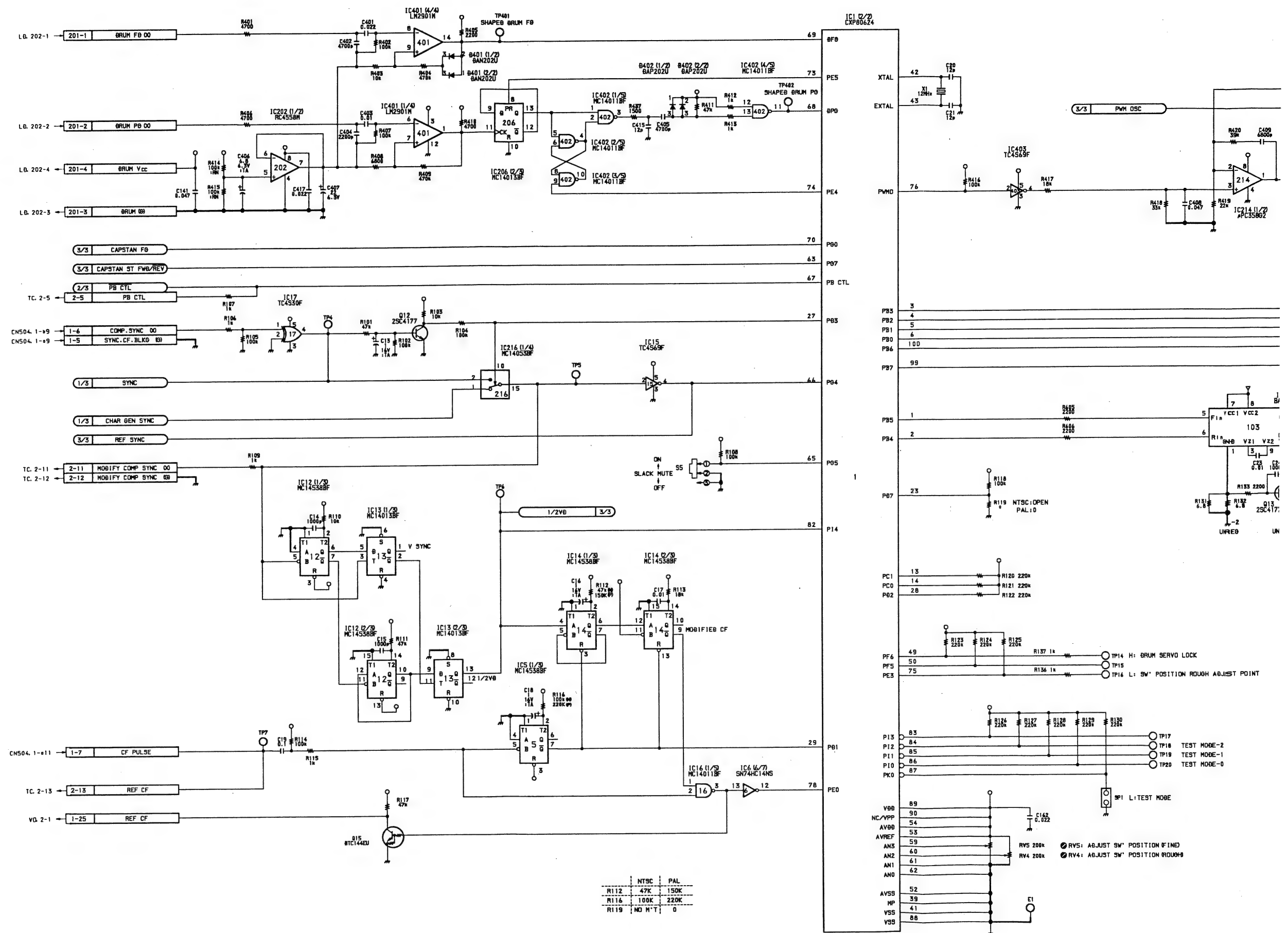


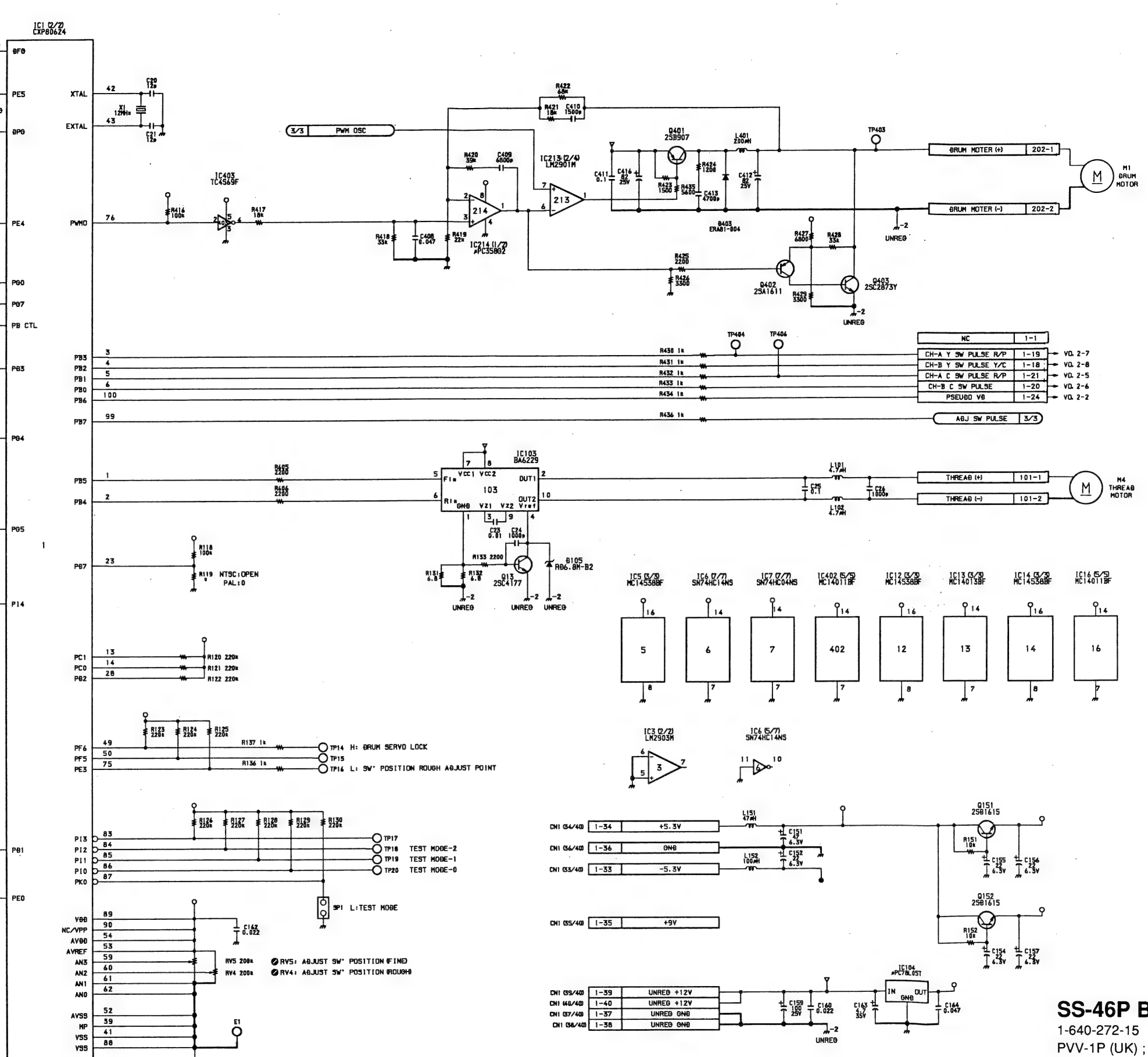
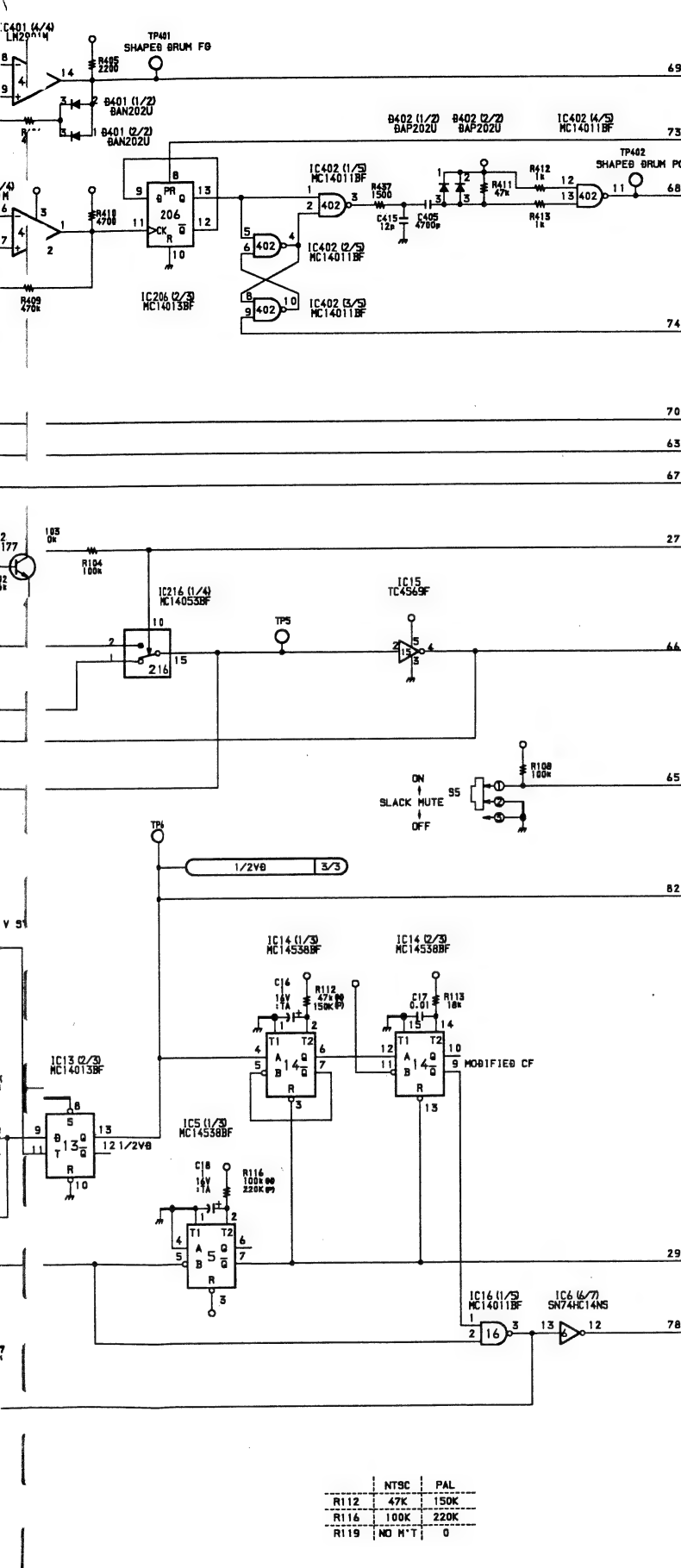
■ TP4 COMP SYNC 5Vp-p REC mode



SS-46P BOARD (2/3)  
System Control  
Character Generator

S/N 12391 and higher



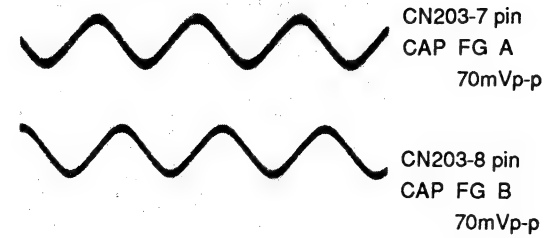


SS-46P BOARD (2/3)  
1-640-272-15  
PVV-1P (UK) ; #12391-

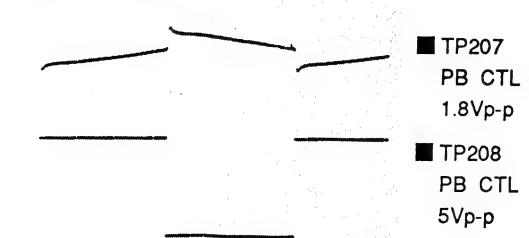
SS-46P (3/3)

S/N 10001 through 10100

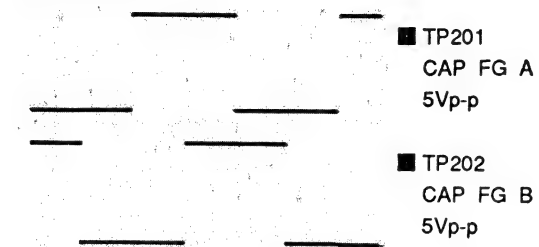
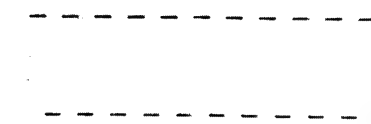
① REC mode



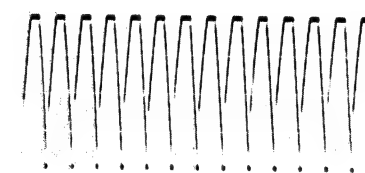
⑥ PB mode



② REC mode

⑦ TP204 S REEL FG 5.3Vp-p FF/REW mode  
TP205 T REEL FG 5.3Vp-p FF/REW mode

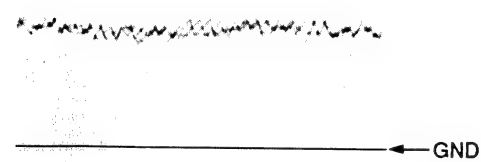
③ TP203 CAP STOP SERVO ERROR REC mode



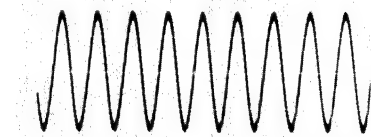
⑧ IC213-5,7,9 PWM SAW 1.5Vp-p



④ TP209 CAP DRIVE 3.5Vdc REC mode



⑨ CN4-1 pin/CN7-1 pin 180mVp-p PB mode

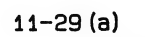


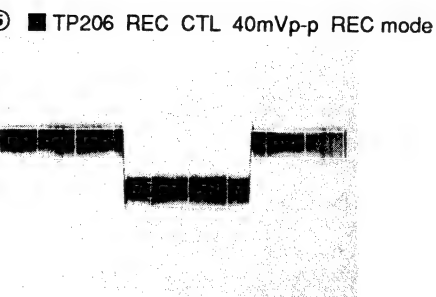
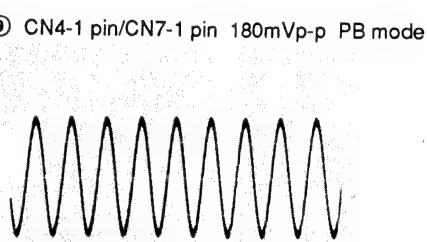
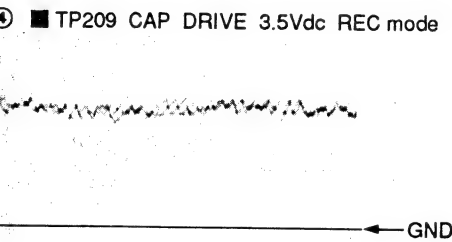
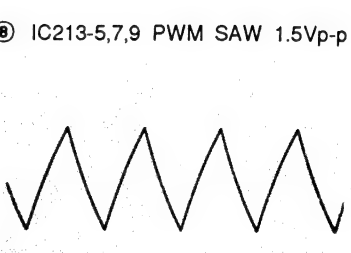
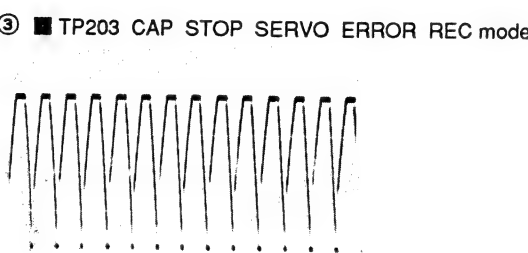
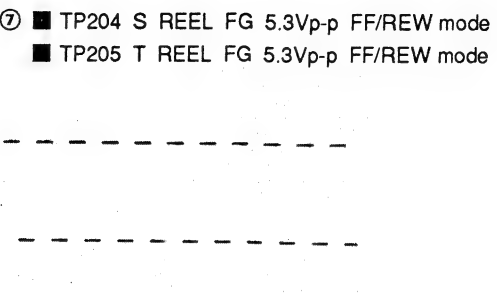
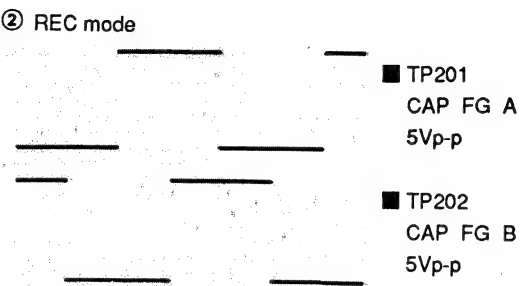
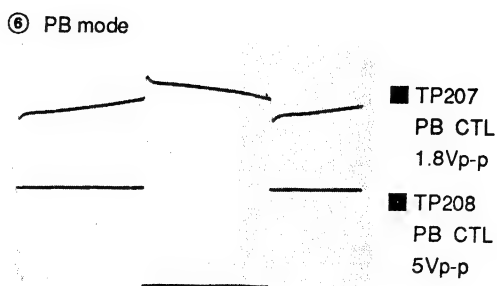
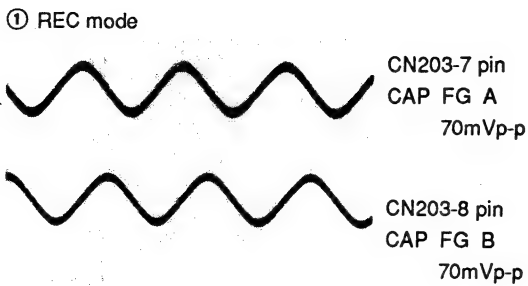
⑤ TP206 REC CTL 40mVp-p REC mode

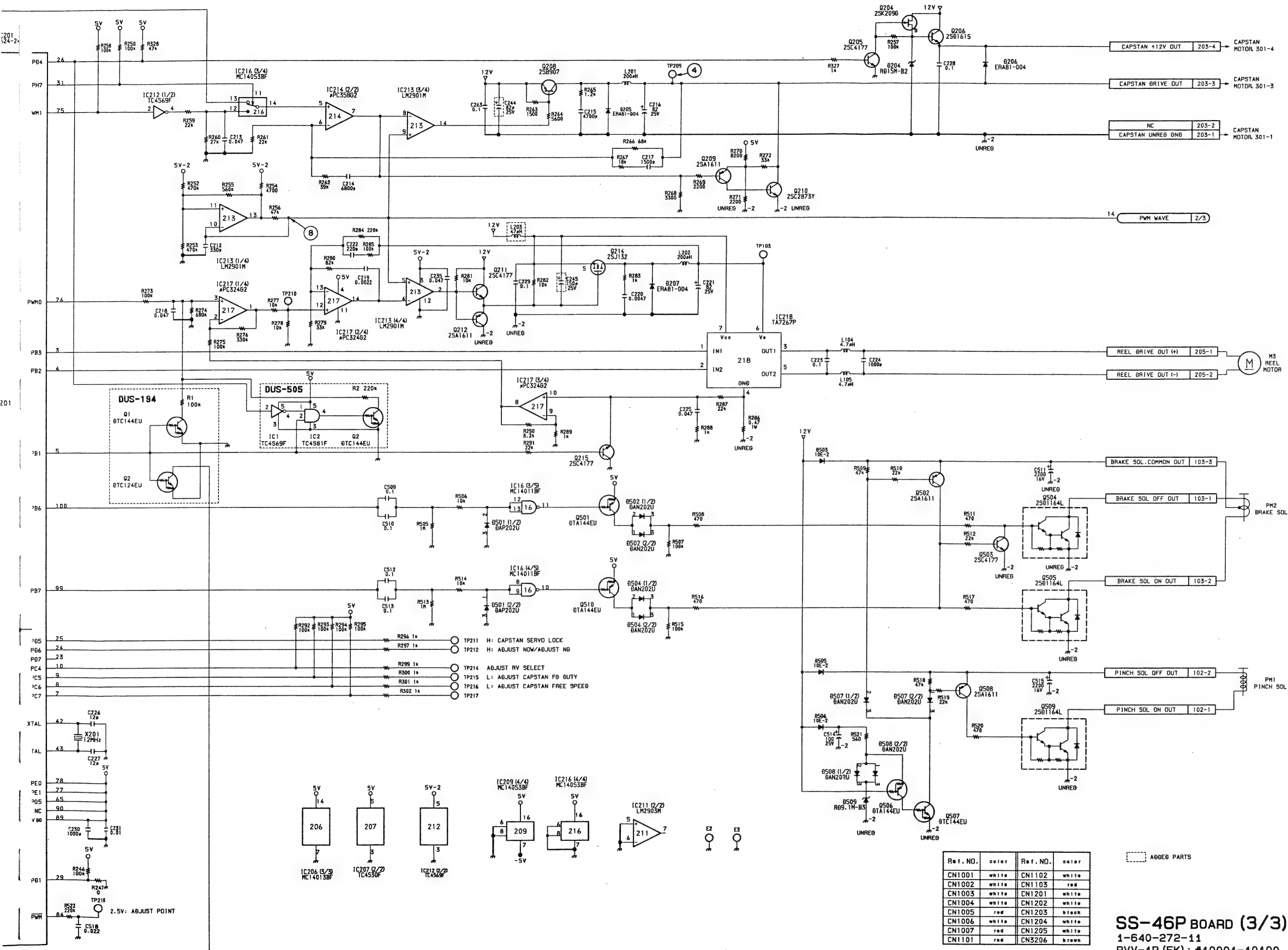


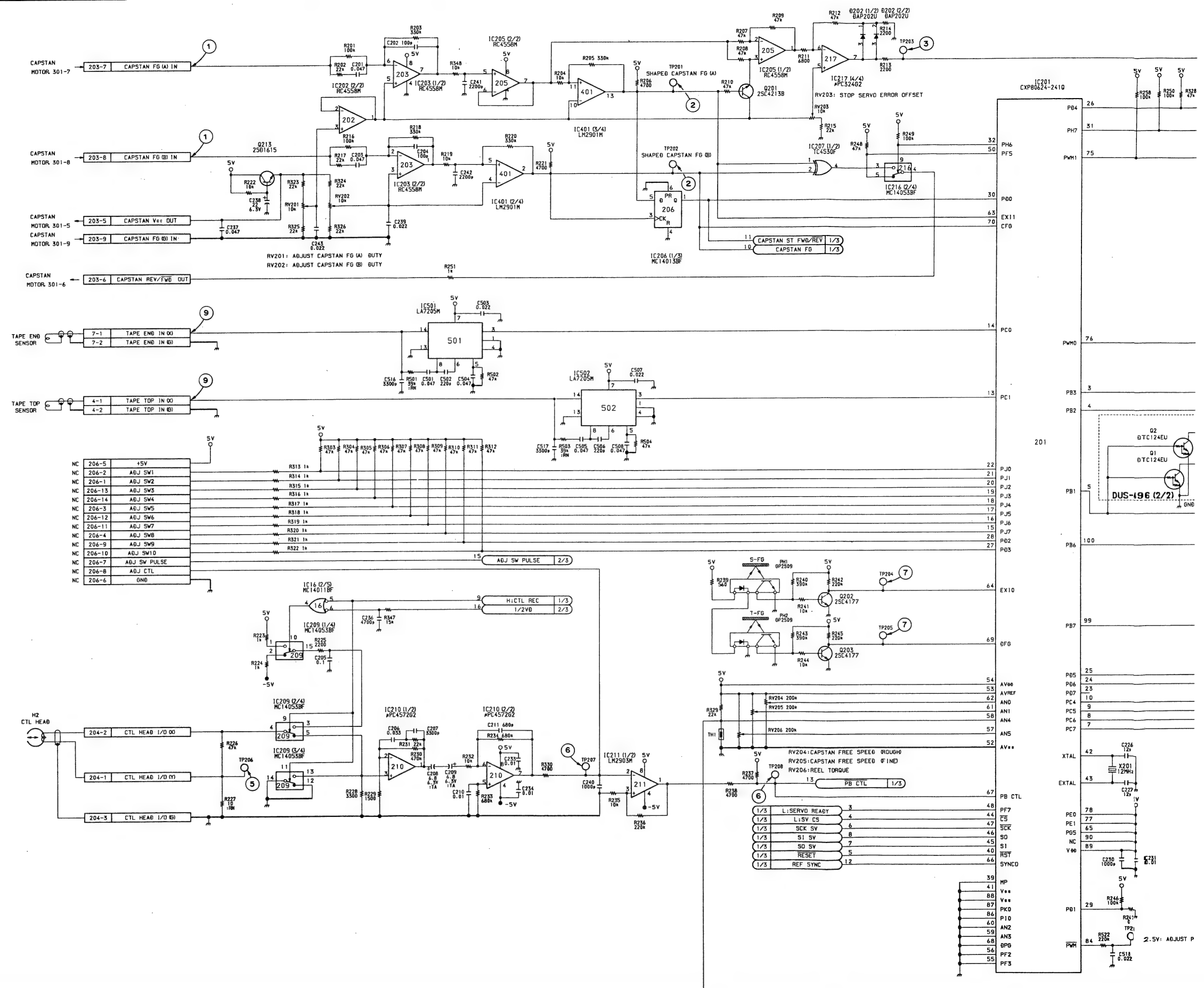
11-28 (a)











Ref. NO.	color	Ref. NO.	color
CN1001	white	CN1102	white
CN1002	white	CN1103	red
CN1003	white	CN1201	white
CN1004	white	CN1202	white
CN1005	red	CN1203	black
CN1006	white	CN1204	white
CN1007	red	CN1205	white
CN1101	red	CN3206	brown

**SS-46P BOARD (3/3)**  
1-640-272-12  
PVV-1P (EK); #10101-10500

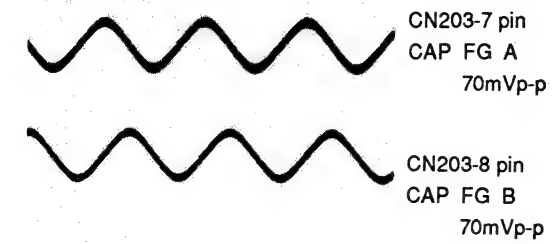
0



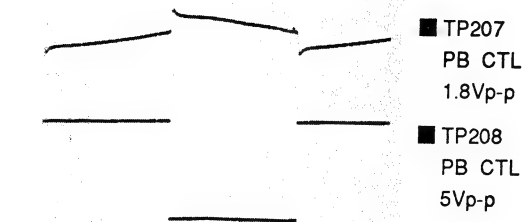
SS-46P (3/3)

S/N 10501 through 12390

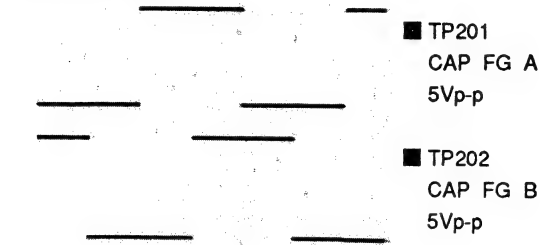
① REC mode



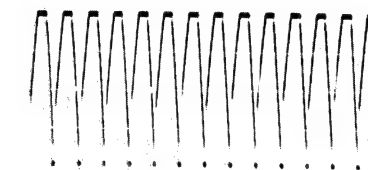
⑥ PB mode



② REC mode

⑦ TP204 S REEL FG 5.3Vp-p FF/REW mode  
TP205 T REEL FG 5.3Vp-p FF/REW mode

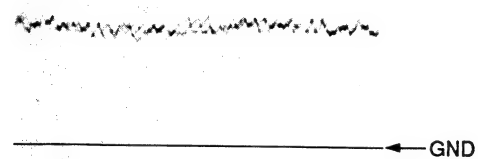
③ TP203 CAP STOP SERVO ERROR REC mode



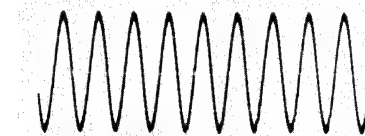
⑧ IC213-5,7,9 PWM SAW 1.5Vp-p



④ TP209 CAP DRIVE 3.5Vdc REC mode

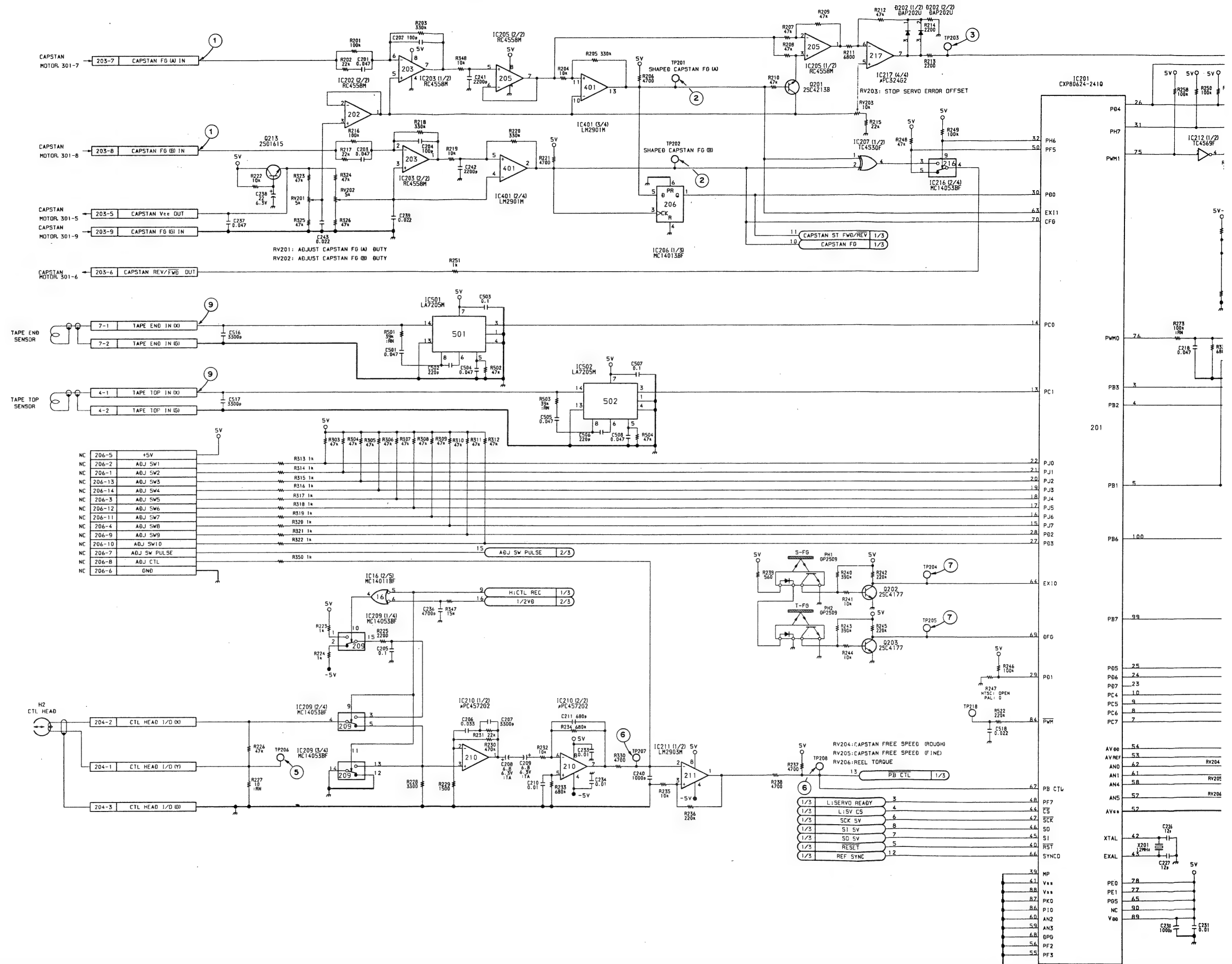


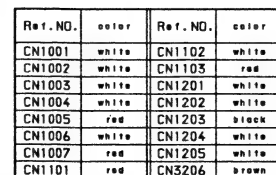
⑨ CN4-1 pin/CN7-1 pin 180mVp-p PB mode



⑤ TP206 REC CTL 40mVp-p REC mode





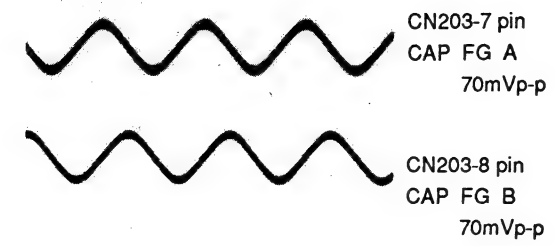


1-640-272-14  
PVV-1P (EK) ; #10501-12390

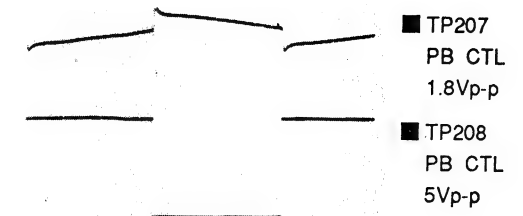
SS-46P (3/3)

S/N 12391 and higher

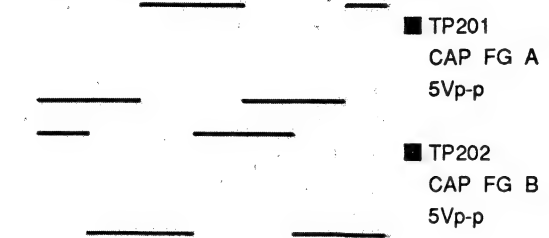
REC mode



PB mode

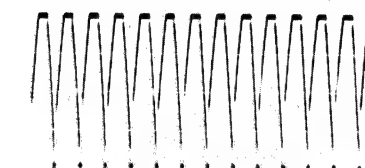


REC mode



TP204 S REEL FG 5.3Vp-p FF/REW mode  
TP205 T REEL FG 5.3Vp-p FF/REW mode

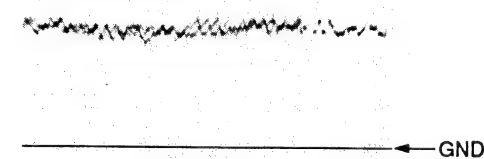
TP203 CAP STOP SERVO ERROR REC mode



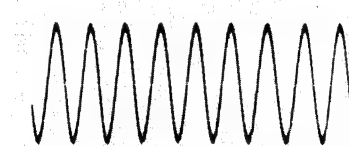
IC213-5,7,9 PWM SAW 1.5Vp-p



TP209 CAP DRIVE 3.5Vdc REC mode



CN4-1 pin/CN7-1 pin 180mVp-p PB mode



TP206 REC CTL 40mVp-p REC mode



4



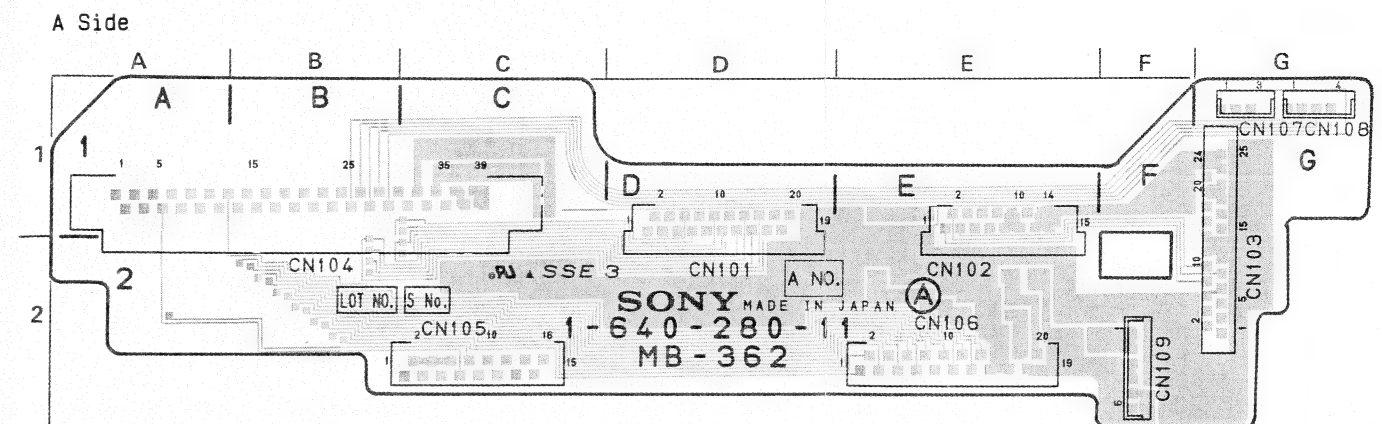


**MB-362 BOARD**  
Mother Board

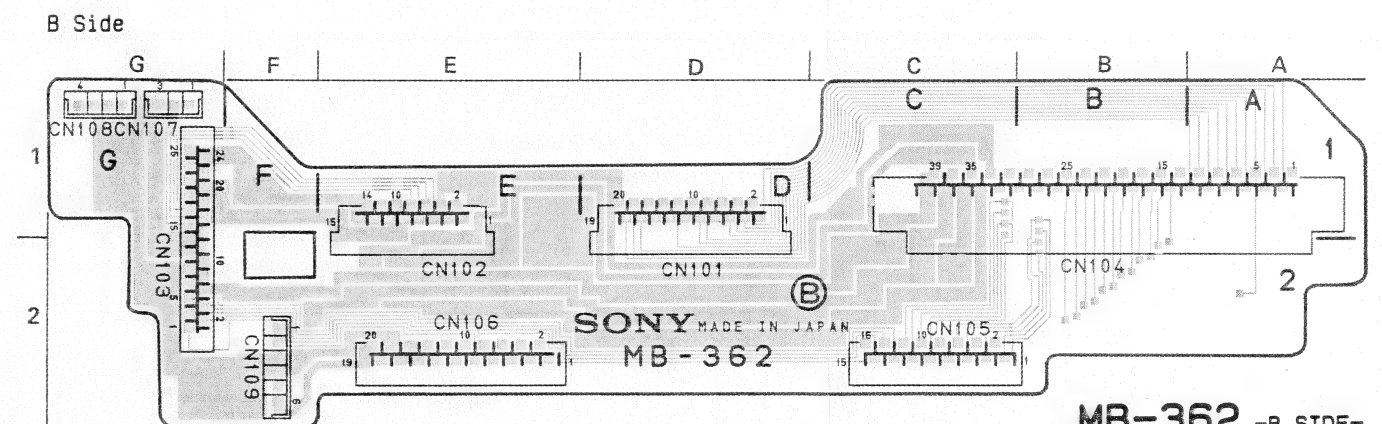
S/N 10001 through 10500

**MB-362 (1-640-280-11)**

CN101 D-2  
CN102 E-2  
CN103 G-2  
CN104 B-2  
CN105 C-2  
CN106 E-2  
CN107 G-1  
CN108 G-1  
CN109 F-2



**MB-362 -A SIDE-**  
1-640-280-11  
PVV-1  
PVV-1P

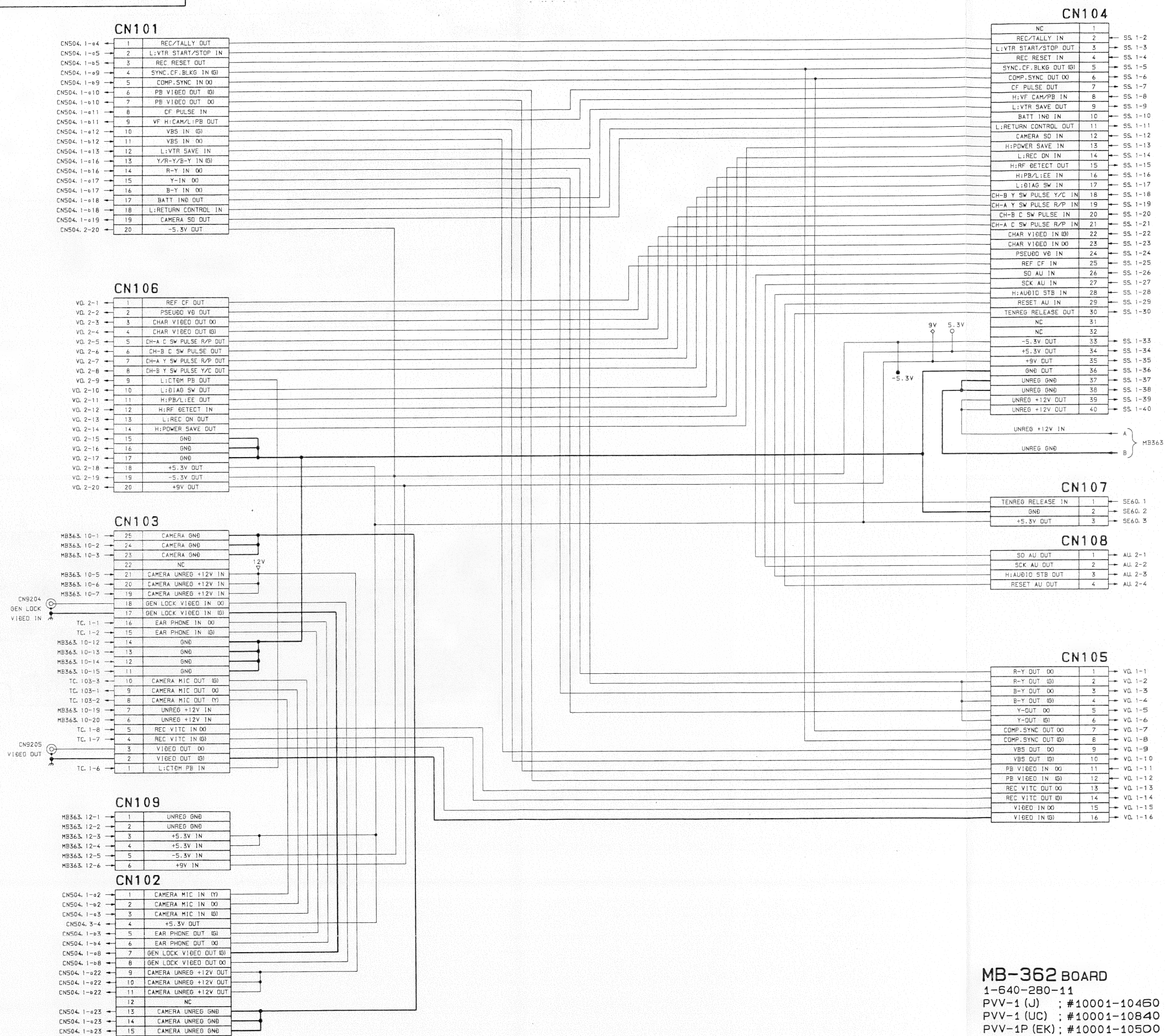


**MB-362 -B SIDE-**  
1-640-280-11  
PVV-1  
PVV-1P

MB-362 BOARD  
Mother Board

S/N 10001 through 10500

MB-362 MB-362



MB-362 BOARD  
1-640-280-11  
PVV-1 (J) ; #10001-10460  
PVV-1 (UC) ; #10001-10840  
PVV-1P (EK) ; #10001-10500



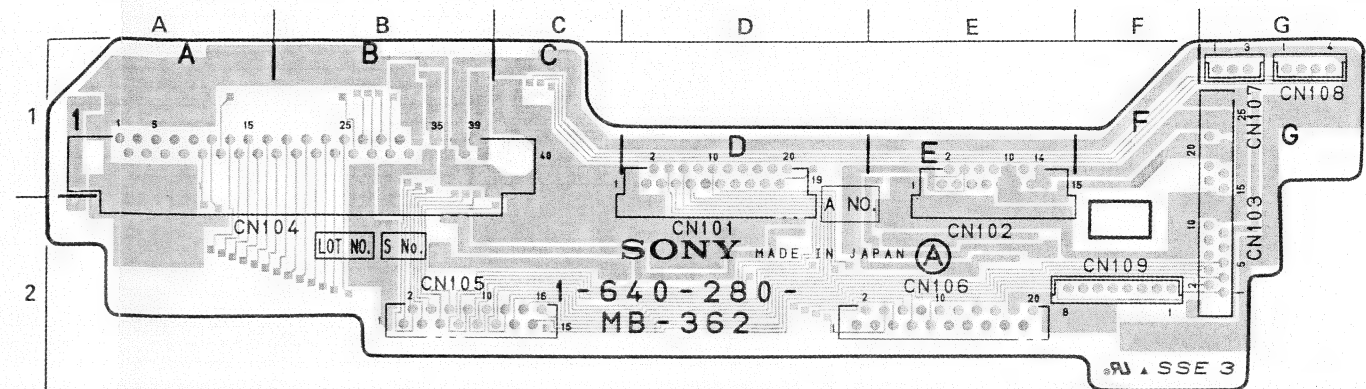
**MB-362 BOARD**  
Mother Board

S/N 10501 through 11420

MB-362 (1-640-280-12, 13)

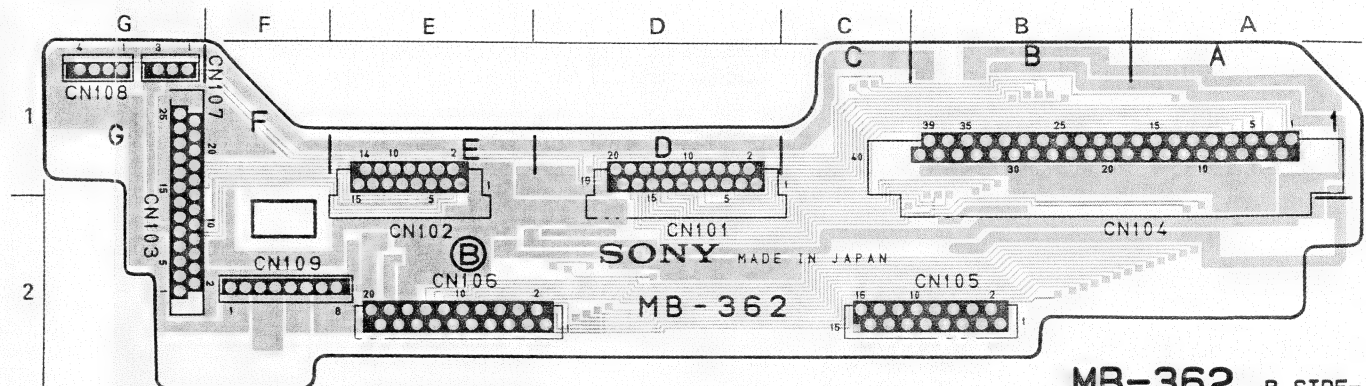
CN101 D-2  
CN102 E-2  
CN103 G-2  
CN104 B-2  
CN105 C-2  
CN106 E-2  
CN107 G-1  
CN108 G-1  
CN109 F-2

A Side



**MB-362 -A SIDE-**  
1-640-280-12, 13  
PVV-1P

B Side



**MB-362 -B SIDE-**  
1-640-280-12, 13  
PVV-1P

MB-362

MB-362

# MB-362 BOARD

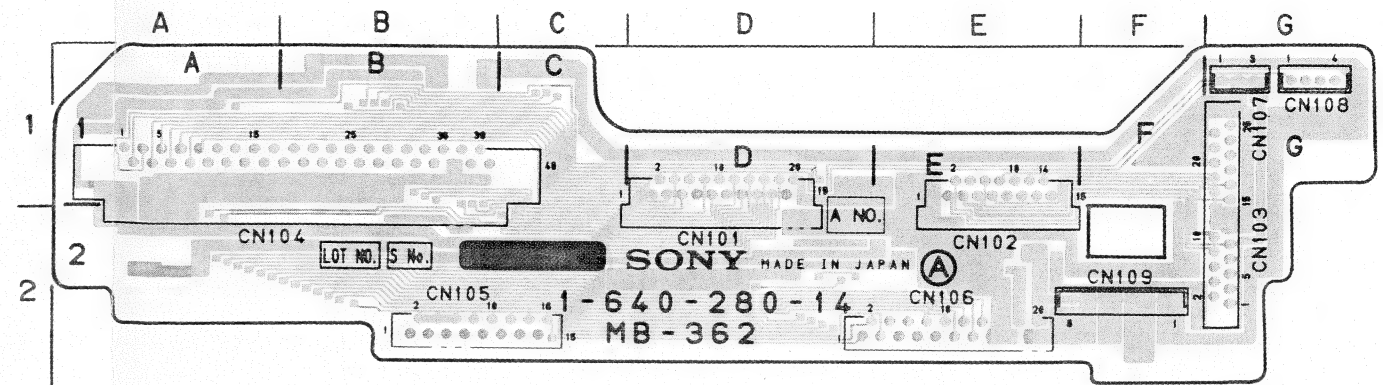
Mother Board

S/N 11421 and higher

MB-362 (1-640-280-14)

- CN101 D-2
- CN102 E-2
- CN103 G-2
- CN104 B-2
- CN105 C-2
- CN106 E-2
- CN107 G-1
- CN108 G-1
- CN109 F-2

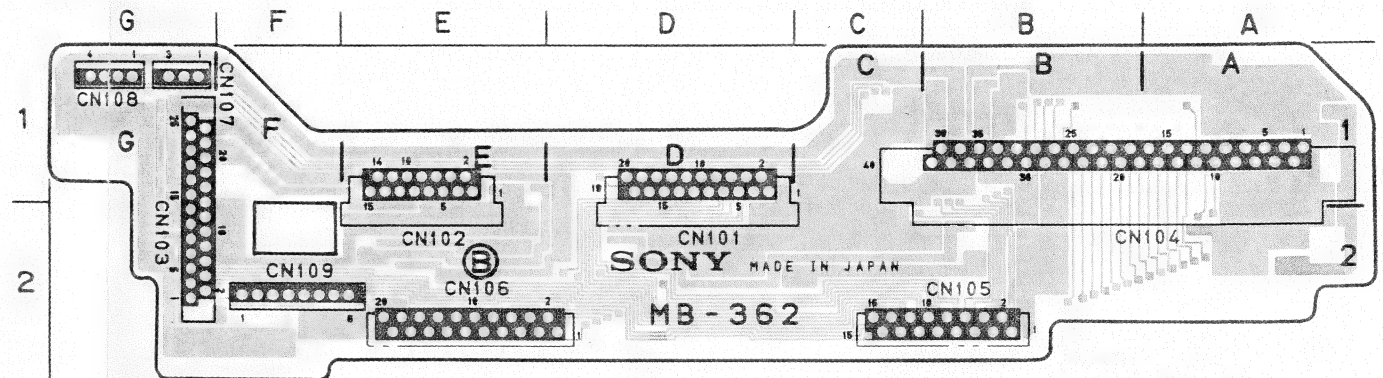
A Side



**MB-362 -A SIDE-**

1-640-280-14  
PVV-1P

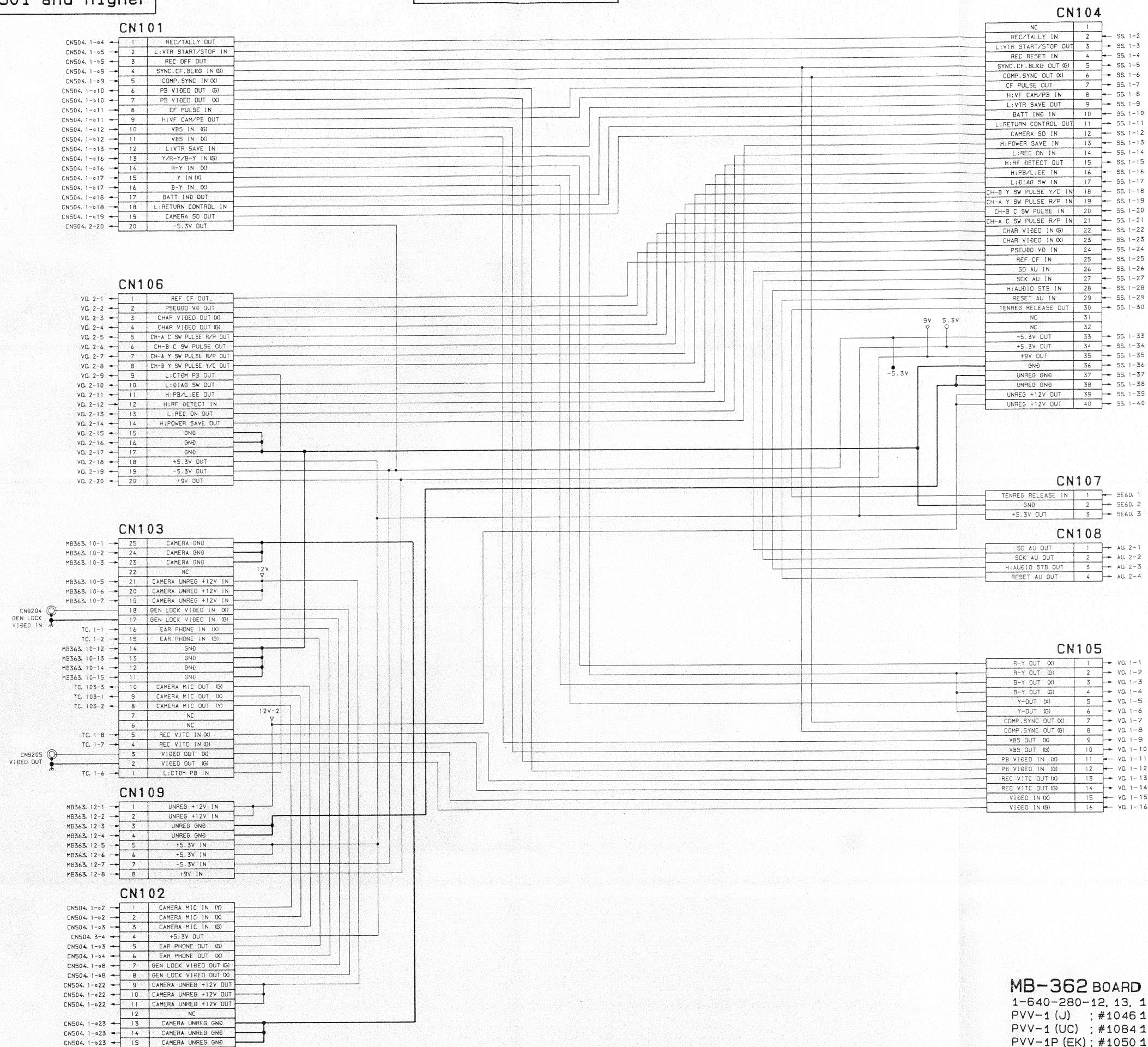
B Side



**MB-362 -B SIDE-**

1-640-280-14  
PVV-1P





MB-362 BOARD  
1-640-280-12, 13, 14  
PVV-1 (J) : #10461-  
PVV-1 (UC) : #10841-  
PVV-1P (EK) : #10501-



**MB-363 BOARD**  
Mother Board

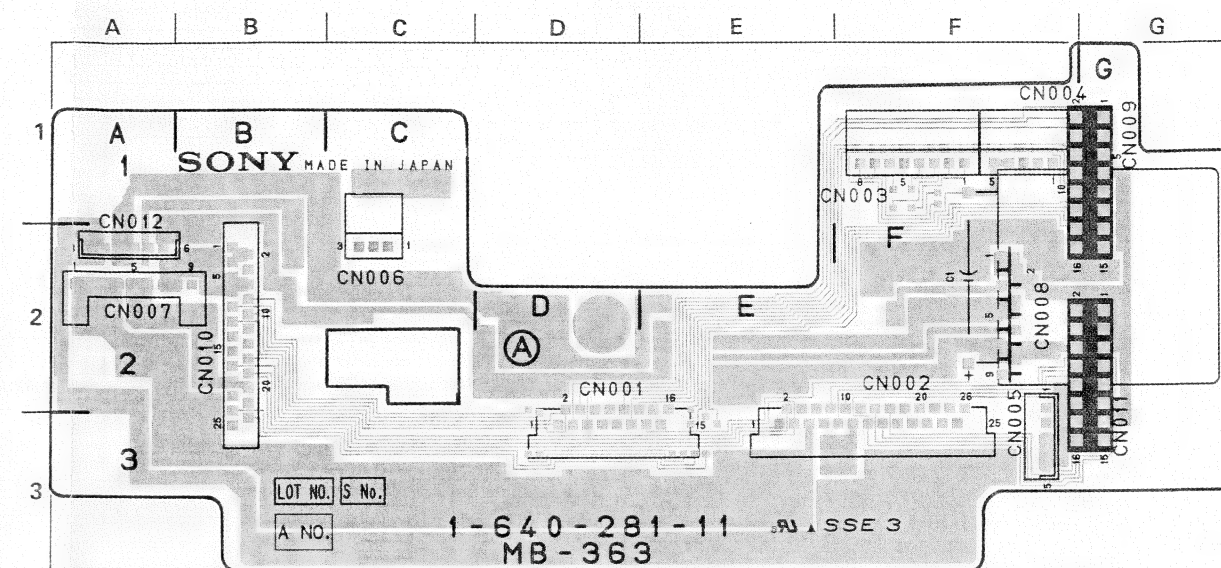
S/N 10001 through 10500

MB-363 (1-640-281-11)

CN1 D-2  
CN2 F-2  
CN3 F-1  
CN4 F-1  
CN5 F-3  
CN6 C-2  
CN7 A-2  
CN8 F-2 (B)  
CN9 G-1 (B)  
CN10 B-2  
CN11 G-2 (B)  
CN12 A-2

NOTE  
\*\* : \*\*A SIDE  
\*\*(B) : \*\*B SIDE

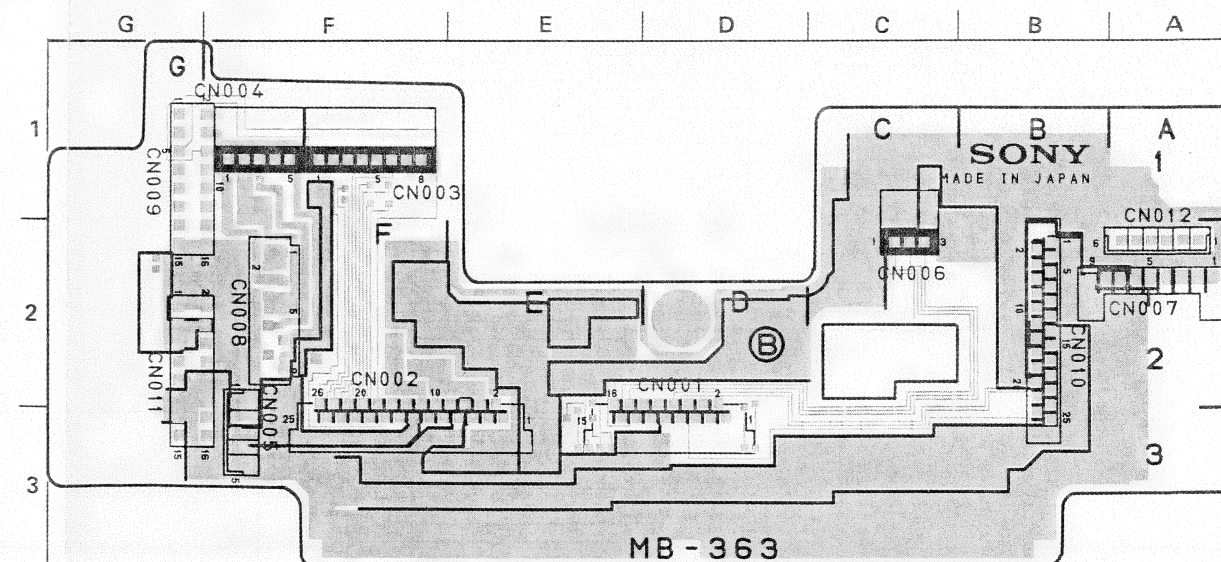
A Side



**MB-363 -A SIDE-**

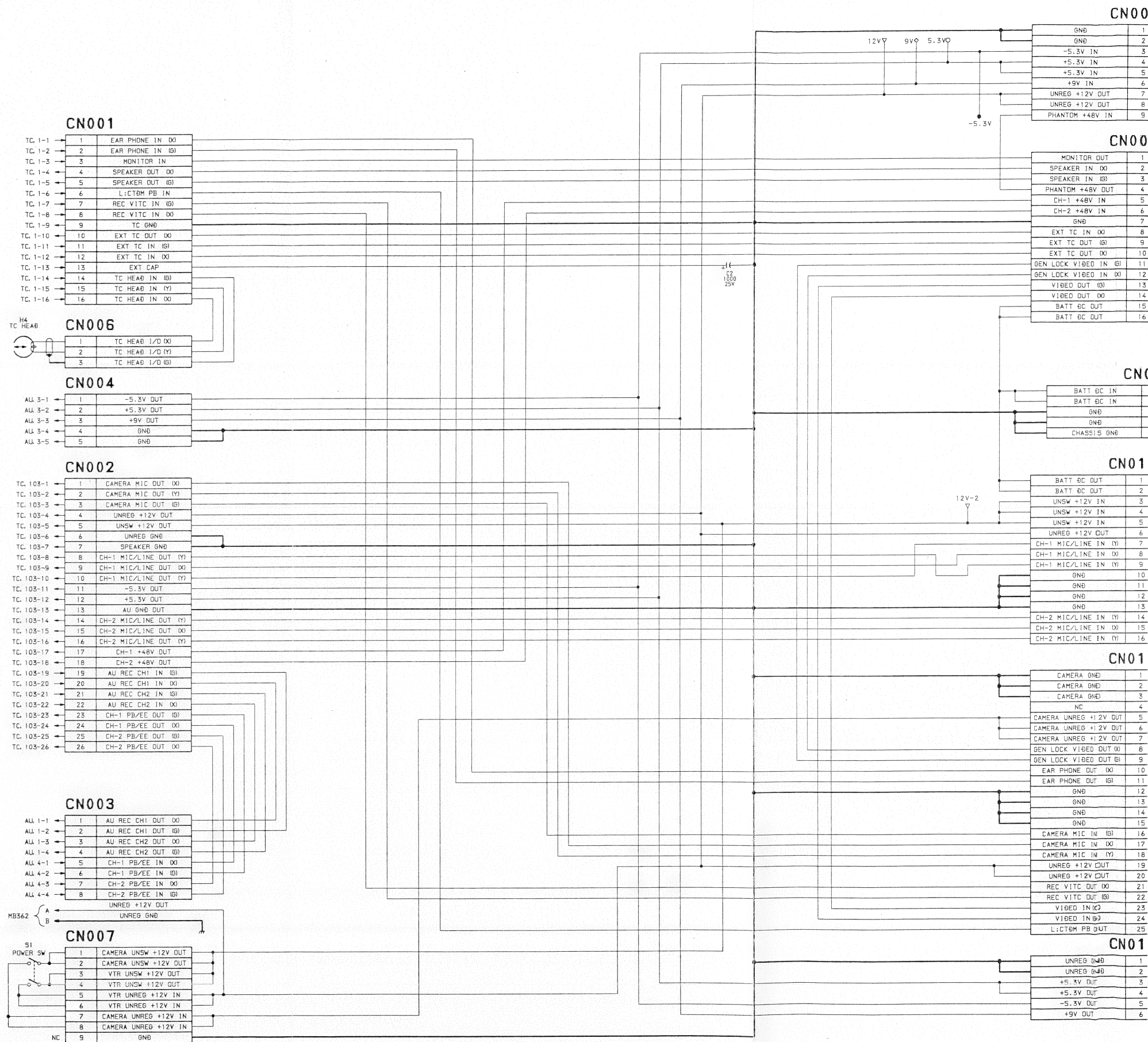
1-640-281-11  
PVV-1  
PVV-1P

B Side

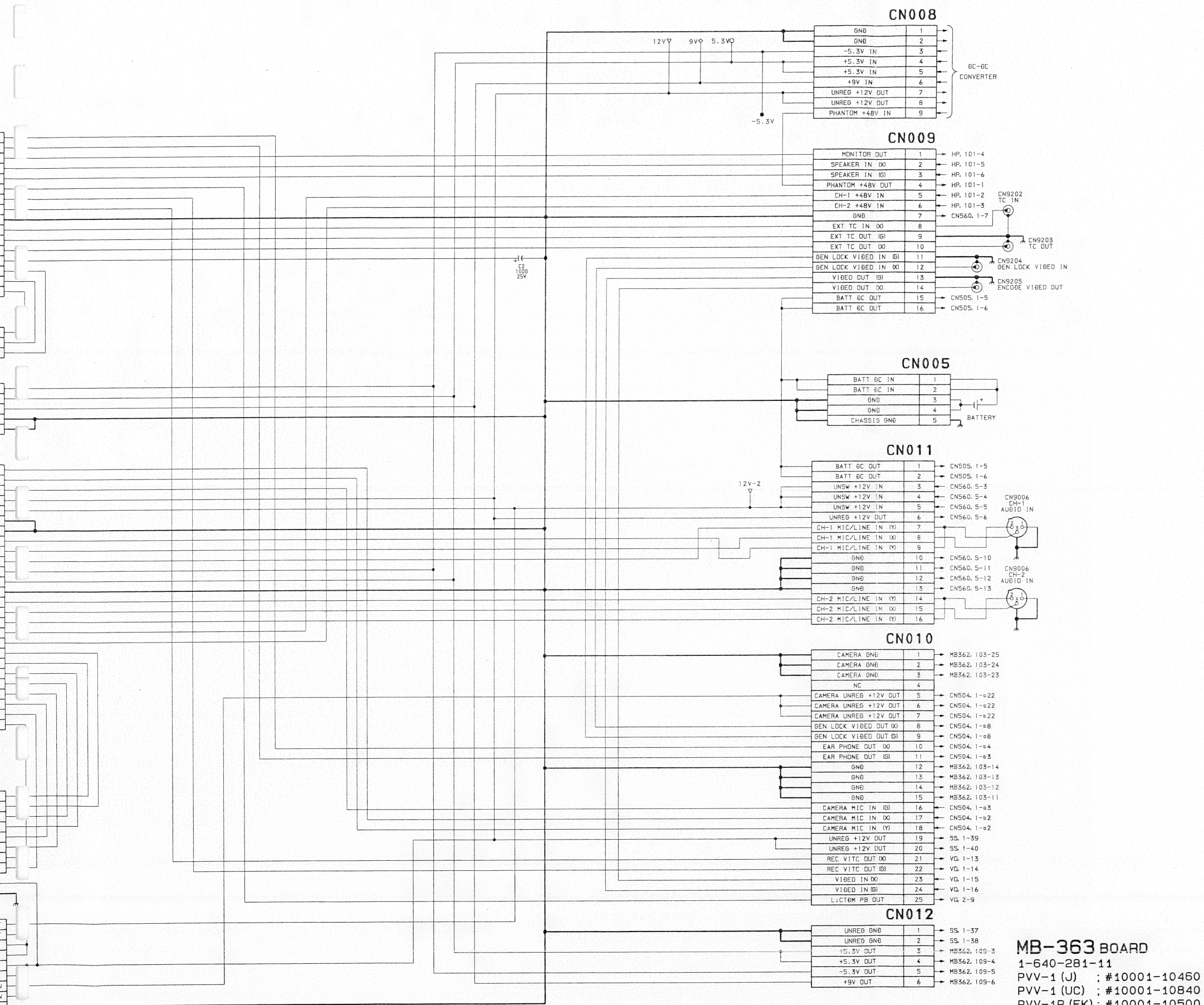


**MB-363 -B SIDE-**

1-640-281-11  
PVV-1  
PVV-1P







**MB-363 BOARD**  
 1-640-281-11  
 PVV-1 (J) ; #10001-10460  
 PVV-1 (UC) ; #10001-10840  
 PVV-1P (EK) ; #10001-10500

**MB-363 BOARD**  
Mother Board

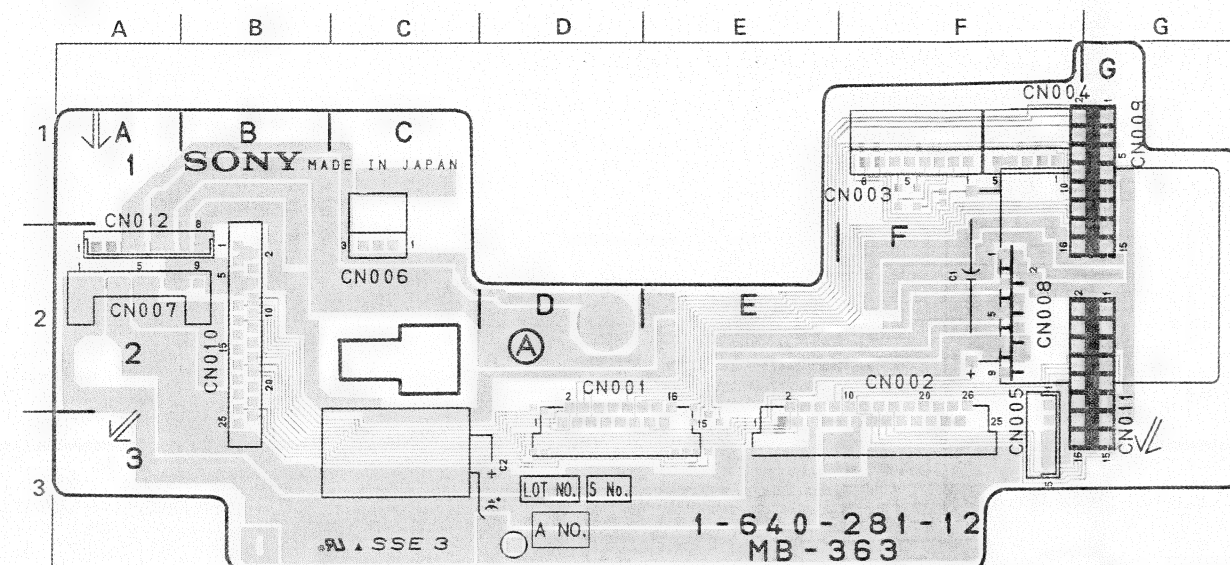
S/N 10501 through 10800

**MB-363 (1-640-281-12)**

- CN1 D-2
- CN2 F-2
- CN3 F-1
- CN4 F-1
- CN5 F-3
- CN6 C-2
- CN7 A-2
- CN8 F-2(B)
- CN9 G-1(B)
- CN10 B-2
- CN11 G-2(B)
- CN12 A-2

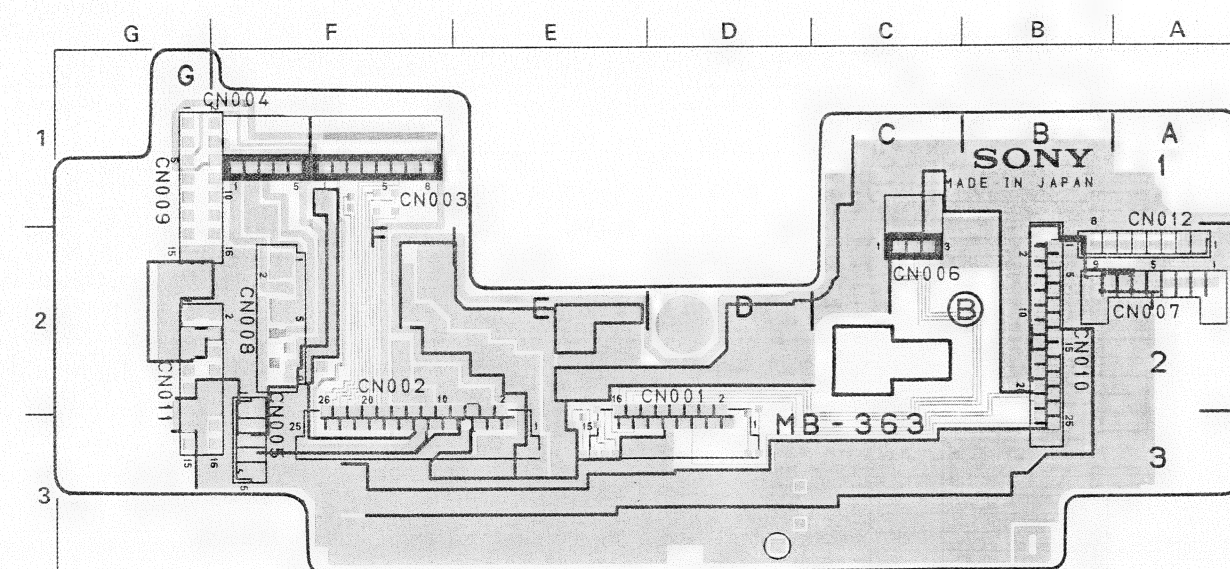
NOTE  
\*\* : \*\*A SIDE  
\*\*(B) : \*\*B SIDE

A Side



**MB-363 -A SIDE-**  
1-640-281-12  
PVV-1P

B Side



**MB-363 -B SIDE-**  
1-640-281-12  
PVV-1P

**MB-363 BOARD**  
Mother Board

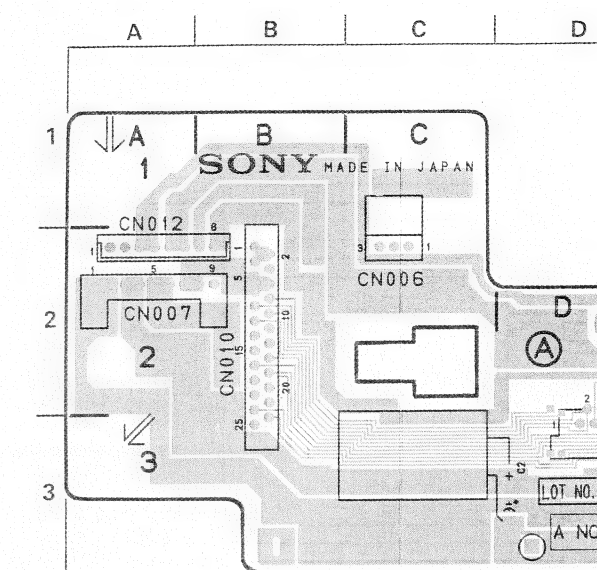
S/N 10801 through 11420

**MB-363 (1-640-281-13)**

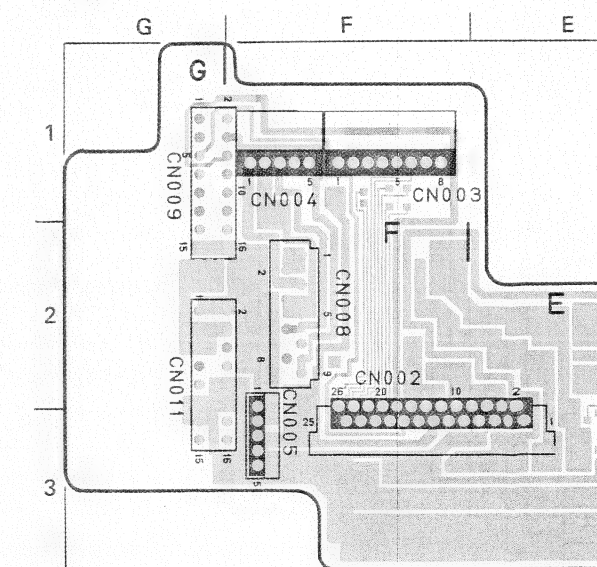
- CN1 D-2
- CN2 F-2
- CN3 F-1
- CN4 F-1
- CN5 F-3
- CN6 C-2
- CN7 A-2
- CN8 F-2(B)
- CN9 G-1(B)
- CN10 B-2
- CN11 G-2(B)
- CN12 A-2

NOTE  
\*\* : \*\*A SIDE  
\*\*(B) : \*\*B SIDE

A Side



B Side





**MB-363 BOARD**  
Mother Board

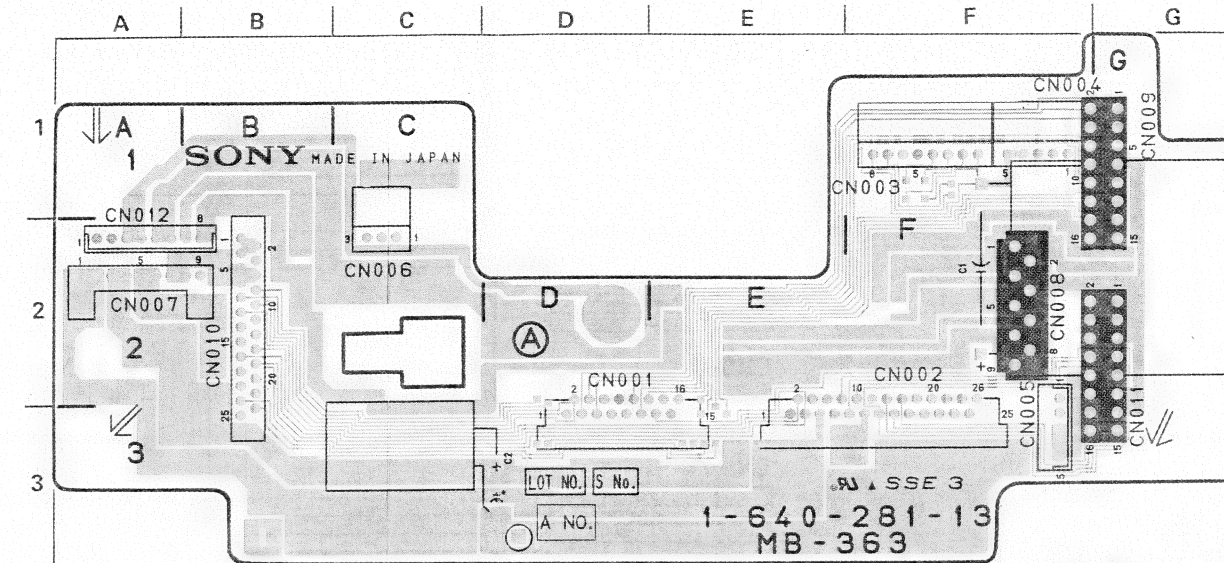
S/N 10801 through 11420

MB-363 (1-640-281-13)

- CN1 D-2
- CN2 F-2
- CN3 F-1
- CN4 F-1
- CN5 F-3
- CN6 C-2
- CN7 A-2
- CN8 F-2 (B)
- CN9 G-1 (B)
- CN10 B-2
- CN11 G-2 (B)
- CN12 A-2

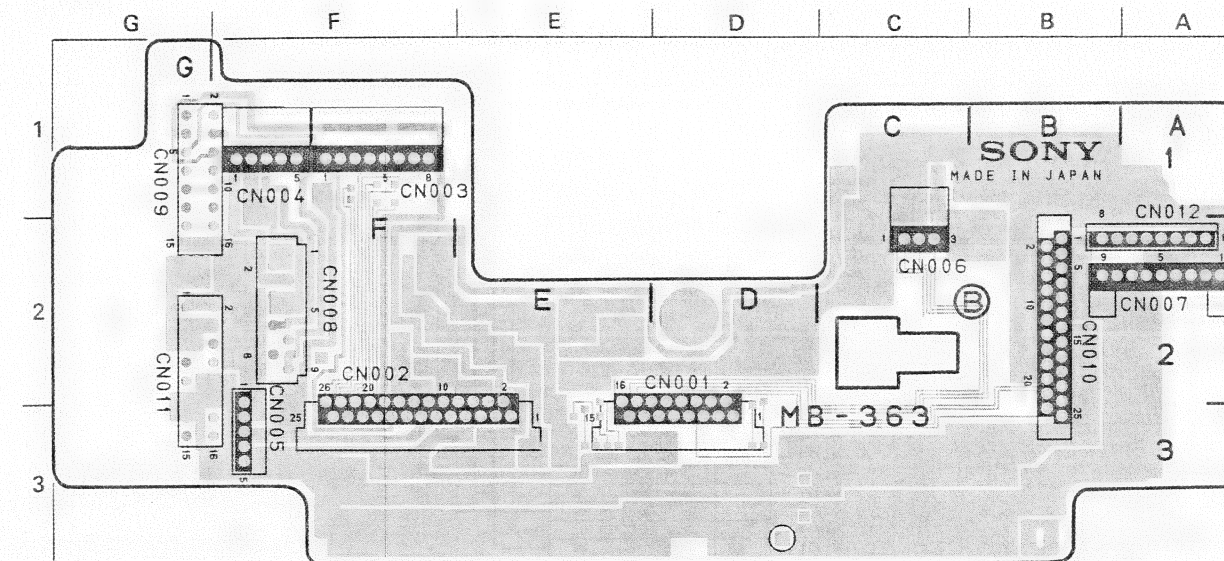
NOTE  
\*\* : \*\*A SIDE  
\*\*(B) : \*\*B SIDE

A Side



**MB-363 -A SIDE-**  
1-640-281-13  
PVV-1P

B Side



**MB-363 -B SIDE-**  
1-640-281-13  
PVV-1P



MB-363

MB-363

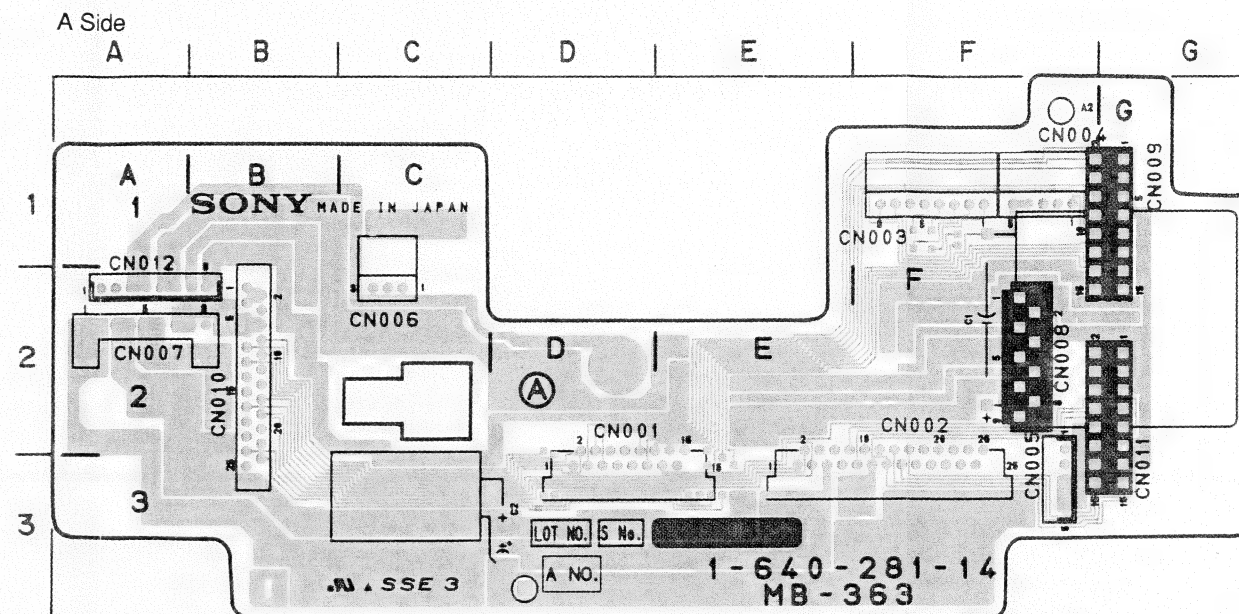
**MB-363 BOARD**  
Mother Board

S/N 11421 and higher

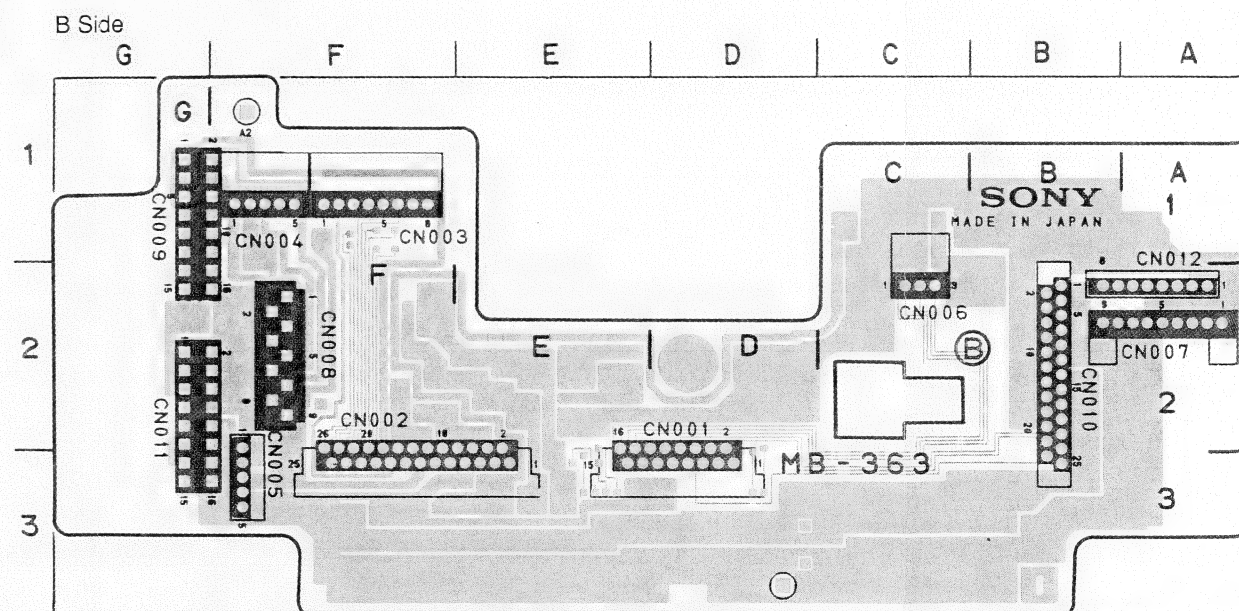
MB-363 (1-640-281-14)

CN1 D-2  
CN2 F-2  
CN3 F-1  
CN4 F-1  
CN5 F-3  
CN6 C-2  
CN7 A-2  
CN8 F-2 (B)  
CN9 G-1 (B)  
CN10 B-2  
CN11 G-2 (B)  
CN12 A-2

NOTE  
\* : \*A SIDE  
\*(B) : \*B SIDE



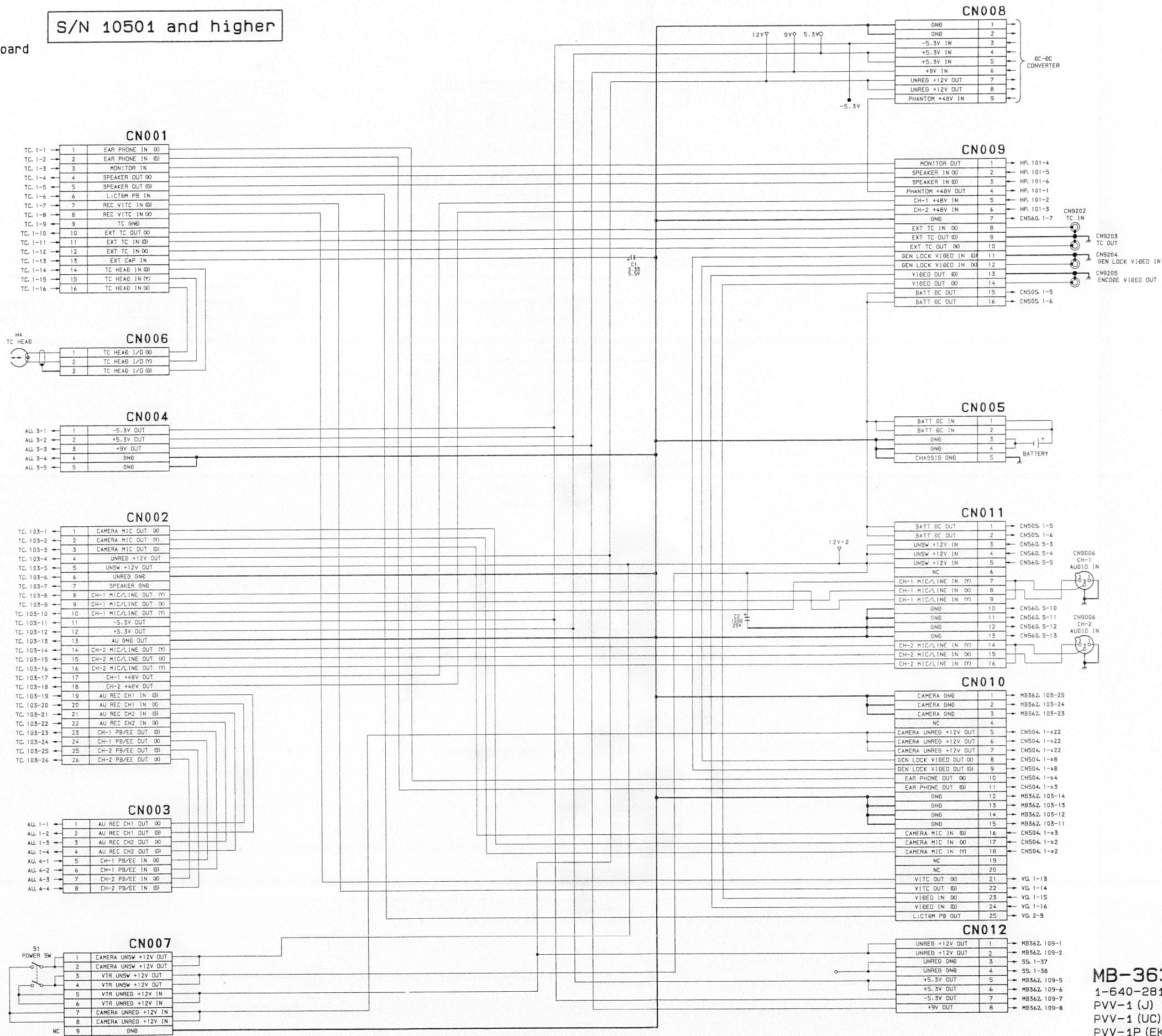
**MB-363 -A SIDE-**  
1-640-281-14  
PVV-1P



**MB-363 -B SIDE-**  
1-640-281-14  
PVV-1P

MB-363 BOARD  
Mother Board

S/N 10501 and higher



MB-363 BOARD  
1-640-281-12, 13, 14  
PVV-1 (J) : #10461-  
PVV-1 (UC) : #10841-  
PVV-1P (EK) : #10501-



Function Key

KY-211 -A SIDE-  
1-640-274-11  
PVV-1  
PVV-1P

[illegible]

KY-211 -B SIDE-  
1-640-274-11  
PVV-1  
PVV-1P

Mechanical Sensor  
DEW Sensor Relay

SE-164  
-B SIDE-  
1-640-284-11  
PVV-1  
PVV-1P






Tension Regulator Sensor

SE-60  
-A SIDE-  
1-622-630-13  
PVV-1  
PVV-1P

## Backtally Switch

OFF ON 7 SW-457  
S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23 S24 S25 S26 S27 S28 S29 S30 S31 S32 S33 S34 S35 S36 S37 S38 S39 S40 S41 S42 S43 S44 S45 S46 S47 S48 S49 S50 S51 S52 S53 S54 S55 S56 S57 S58 S59 S60 S61 S62 S63 S64 S65 S66 S67 S68 S69 S70 S71 S72 S73 S74 S75 S76 S77 S78 S79 S80 S81 S82 S83 S84 S85 S86 S87 S88 S89 S90 S91 S92 S93 S94 S95 S96 S97 S98 S99 S100  
SONY MADE IN JAPAN 1-540-282-11

SW-457 -A SIDE-  
1-640-282-11  
PVV-1  
PVV-1P

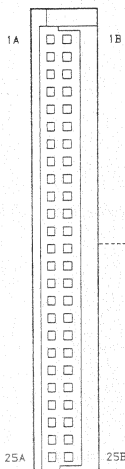
A2  SW-657 R  S1   B  SONY MADE IN JAPAN

SW-457 -B SIDE-  
1-640-282-11  
PVV-1  
PVV-1P

# FRAME WIRING (1/2)

## FRAME WIRING (1/2)

## FRAME WIRING (1/2)



### CN-504 (CAMERA 50P CN)

CN001	
1	MODE IN
2	CHASSIS GND
3	MIC1 IN (Y)
4	MIC1 IN (G)
5	EAR PHONE OUT (G)
6	REC/TALLY INDICATION IN
7	EAR PHONE OUT (G)
8	VTR TRIGGER IN (VTR START/STOP IN)
9	REC STATUS OUT (REC RESET OUT)
10	SPARE
11	SPARE
12	SPARE
13	SPARE
14	GEN LOCK VIDEO OUT (G)
15	GEN LOCK VIDEO OUT (G)
16	SYNC CF, BLKG (G) IN
17	COMP SYNC OUT (G)
18	PB VIDEO OUT (G)
19	PB VIDEO OUT (G)
20	CF PULSE IN
21	PLAYBACK STATUS OUT (H:CAM/L:PB OUT)
22	VBS IN (G)
23	VBS IN (G)
24	L:VTR SAVE IN
25	VTR/CCU CONT
26	NC
27	NC
28	NC
29	NC
30	Y/R-Y/B-Y IN (G)
31	R-Y IN (G)
32	Y IN (G)
33	B-Y IN (G)
34	BATT ALARM OUT (BATT IN OUT)
35	REC REVIEW IN (L:RETURN CONTROL IN)
36	SERIAL DATA OUT (CAMERA SD)
37	SERIAL DATA (G)
38	NC
39	NC
40	NC
41	GND
42	POWER +12V DC OUT
43	POWER +12V DC OUT
44	POWER GND
45	POWER GND
46	SPARE
47	CHASSIS GND
48	CHASSIS GND

CN002	
1	REC/TALLY IN
2	L:VTR START/STOP OUT
3	REC RESET IN
4	SYNC CF, BLKG OUT (G)
5	COMP SYNC OUT (G)
6	PB VIDEO IN (G)
7	PB VIDEO IN (G)
8	CF PULSE OUT
9	VF H:CAM/L:PB OUT
10	VBS OUT (G)
11	VBS OUT (G)
12	L:VTR SAVE OUT
13	Y/R-Y/B-Y OUT (G)
14	R-Y OUT (G)
15	Y OUT (G)
16	B-Y OUT (G)
17	BATT IN OUT
18	L:RETURN CONTROL OUT
19	CAMERA SD OUT
20	-5.3V IN
21	CAMERA MIC OUT (Y)
22	CAMERA MIC OUT (G)
23	CAMERA MIC OUT (G)
24	+5.3V
25	EAR PHONE IN (G)
26	EAR PHONE IN (G)
27	GEN LOCK VIDEO OUT (G)
28	GEN LOCK VIDEO OUT (G)
29	CAMERA UNREG +12V IN
30	CAMERA UNREG +12V IN
31	CAMERA UNREG +12V IN
32	NC
33	CAMERA UNREG GND
34	CAMERA UNREG GND
35	CAMERA UNREG GND

### MB-362

CN101	
1	REC/TALLY OUT
2	L:VTR START/STOP IN
3	REC RESET OUT
4	SYNC CF, IN (G)
5	COMP SYNC IN (G)
6	PB VIDEO OUT (G)
7	PB VIDEO OUT (G)
8	CF PULSE IN
9	VF H:CAM/L:PB OUT
10	VBS IN (G)
11	VBS IN (G)
12	L:VTR SAVE IN
13	Y/R-Y/B-Y IN (G)
14	R-Y IN (G)
15	Y IN (G)
16	B-Y IN (G)
17	BATT IN OUT
18	L:RETURN CONTROL IN
19	CAMERA SD OUT
20	-5.3V OUT
21	CAMERA MIC IN (Y)
22	CAMERA MIC IN (G)
23	CAMERA MIC IN (G)
24	+5.3V
25	EAR PHONE OUT (G)
26	EAR PHONE OUT (G)
27	GEN LOCK VIDEO OUT (G)
28	GEN LOCK VIDEO OUT (G)
29	CAMERA UNREG +12V OUT
30	CAMERA UNREG +12V OUT
31	CAMERA UNREG +12V OUT
32	NC
33	CAMERA UNREG GND
34	CAMERA UNREG GND
35	CAMERA UNREG GND

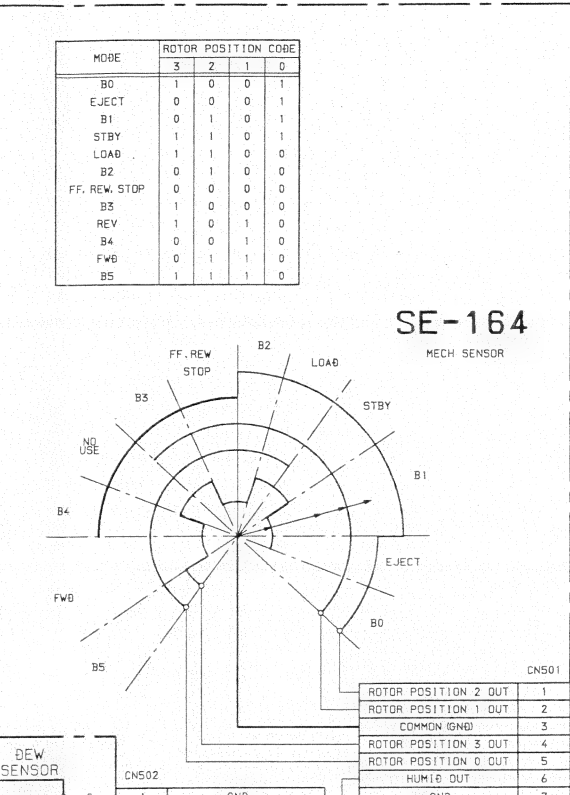
CN104	
1	NC
2	REC/TALLY IN
3	L:VTR START/STOP OUT
4	REC RESET IN
5	SYNC CF, BLKG OUT (G)
6	COMP SYNC OUT (G)
7	CF PULSE OUT
8	H:VF CAM/PB IN
9	L:VTR SAVE OUT
10	BATT IN OUT
11	L:RETURN CONTROL OUT
12	CAMERA SD IN
13	H:POWER SAVE IN
14	L:REC ON IN
15	H:RF DETECT OUT
16	H:PB/L:EE IN
17	L:DIAG SW IN
18	CH-B Y SW PULSE R/P IN
19	CH-A Y SW PULSE R/P IN
20	CH-B C SW PULSE IN
21	CH-A C SW PULSE R/P IN
22	CHAR VIDEO IN (G)
23	CHAR VIDEO IN (G)
24	PSEUDO V0 IN
25	REF CF IN
26	SD AU IN
27	SCK AU IN
28	H:AUDIO STB IN
29	RESET AU IN
30	TENREG RELEASE OUT
31	NC
32	NC
33	-5.3V OUT
34	+5.3V OUT
35	+9V OUT
36	GND
37	UNREG GND
38	UNREG GND
39	UNREG +12V OUT
40	UNREG +12V OUT
41	R-Y OUT (G)
42	R-Y OUT (G)
43	B-Y OUT (G)
44	B-Y OUT (G)
45	Y OUT (G)
46	Y OUT (G)
47	COMP SYNC OUT (G)
48	COMP SYNC OUT (G)
49	VBS OUT (G)
50	VBS OUT (G)
51	PB VIDEO IN (G)
52	PB VIDEO IN (G)
53	REC VITC OUT (G)
54	REC VITC OUT (G)
55	VIDEO IN (G)
56	VIDEO IN (G)

CN105	
1	R-Y OUT (G)
2	R-Y OUT (G)
3	B-Y OUT (G)
4	B-Y OUT (G)
5	Y OUT (G)
6	Y OUT (G)
7	COMP SYNC OUT (G)
8	COMP SYNC OUT (G)
9	VBS OUT (G)
10	VBS OUT (G)
11	PB VIDEO IN (G)
12	PB VIDEO IN (G)
13	REC VITC OUT (G)
14	REC VITC OUT (G)
15	VIDEO IN (G)
16	VIDEO IN (G)

CN106	
1	REF CF OUT
2	PSEUDO V0 OUT
3	CHAR VIDEO OUT (G)
4	CHAR VIDEO OUT (G)
5	CH-A C SW PULSE R/P OUT
6	CH-B C SW PULSE OUT
7	CH-A Y SW PULSE R/P OUT
8	CH-B Y SW PULSE Y/C OUT
9	L:CTRM PB OUT
10	L:DIAG SW OUT
11	H:PB/L:EE OUT
12	H:RF DETECT IN
13	L:REC ON OUT
14	H:POWER SAVE OUT
15	GND
16	GND
17	GND
18	+5.3V OUT
19	-5.3V OUT
20	+9V OUT
21	white
22	TENREG RELEASE IN
23	GND
24	+5.3V OUT
25	white
26	SD AU OUT
27	SCK AU OUT
28	H:AUDIO STB OUT
29	RESET AU OUT

CN107	
1	white
2	GND
3	+5.3V OUT
4	white

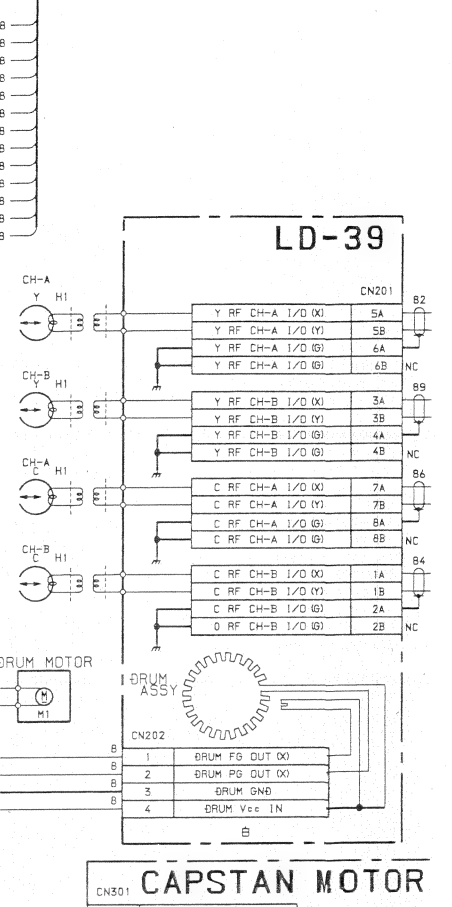
CN108	
1	SD AU OUT
2	SCK AU OUT
3	H:AUDIO STB OUT
4	RESET AU OUT



### SS-46P

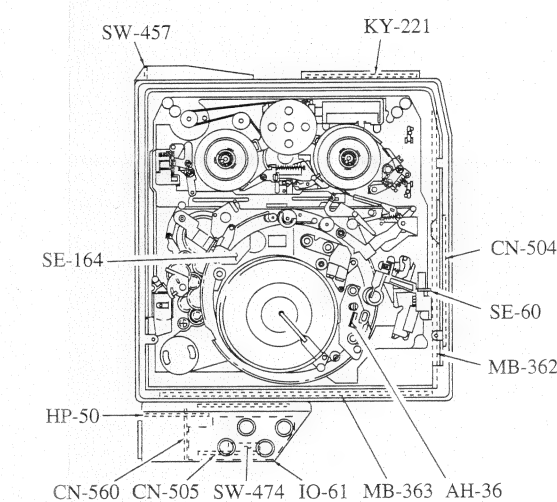
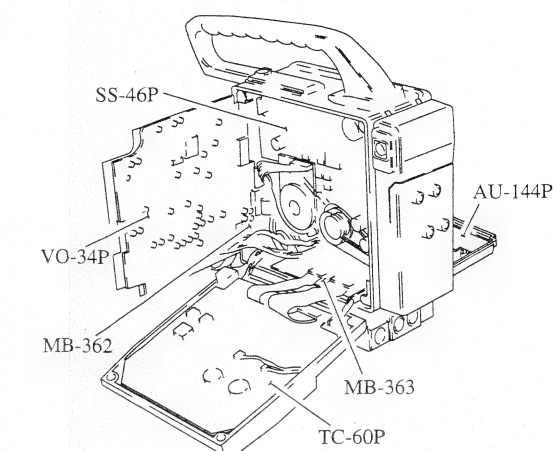
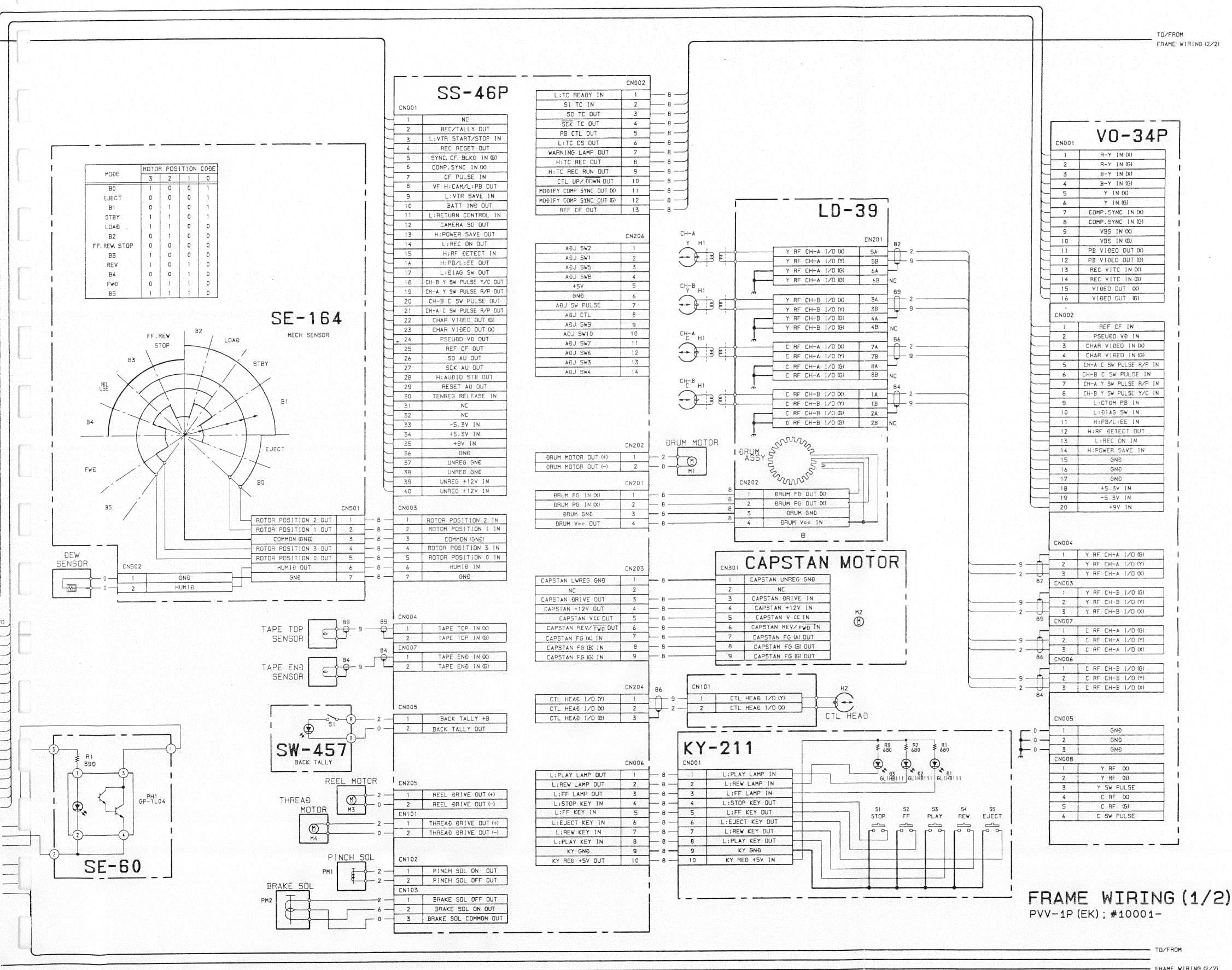
CN001	
1	NC
2	REC/TALLY OUT
3	L:VTR START/STOP IN
4	REC RESET OUT
5	SYNC CF, BLKG IN (G)
6	COMP SYNC IN (G)
7	CF PULSE IN
8	VF H:CAM/L:PB OUT
9	L:VTR SAVE IN
10	BATT IN OUT
11	L:RETURN CONTROL IN
12	CAMERA SD OUT
13	H:POWER SAVE OUT
14	L:REC ON OUT
15	H:RF DETECT IN
16	H:PB/L:EE OUT
17	L:DIAG SW OUT
18	CH-B Y SW PULSE Y/C OUT
19	CH-A Y SW PULSE R/P OUT
20	CH-B C SW PULSE OUT
21	CH-A C SW PULSE R/P OUT
22	CHAR VIDEO OUT (G)
23	CHAR VIDEO OUT (G)
24	PSEUDO V0 OUT
25	REF CF OUT
26	SD AU OUT
27	SCK AU OUT
28	H:AUDIO STB OUT
29	RESET AU OUT
30	TENREG RELEASE IN
31	NC
32	NC
33	-5.3V IN
34	+5.3V IN
35	+9V IN
36	GND
37	UNREG GND
38	UNREG GND
39	UNREG +12V IN
40	UNREG +12V IN
41	ROTOR POSITION 2 OUT
42	ROTOR POSITION 1 IN
43	COMMON (GND)
44	ROTOR POSITION 3 IN
45	ROTOR POSITION 0 OUT
46	HUMID OUT
47	GND
48	ROTOR POSITION 2 IN
49	ROTOR POSITION 1 IN
50	COMMON (GND)
51	ROTOR POSITION 3 IN
52	ROTOR POSITION 0 IN
53	HUMID IN
54	GND

CN002	
1	L:TC READY IN
2	SI TC IN
3	SD TC OUT
4	SCK TC OUT
5	PB CTL OUT
6	L:TC CS OUT
7	WARNING LAMP OUT
8	H:TC REC OUT
9	H:TC REC RUN OUT
10	CTL UP/DOWN OUT
11	MODIFY COMP SYNC OUT (G)
12	MODIFY COMP SYNC OUT (G)
13	REF CF OUT
14	ABJ SW2
15	ABJ SW1
16	ABJ SW3
17	ABJ SW4
18	+5V
19	GND
20	ABJ SW PULSE
21	ABJ CTL
22	ABJ SW5
23	ABJ SW6
24	ABJ SW7
25	ABJ SW8
26	ABJ SW9
27	ABJ SW10
28	REF CF OUT
29	SD AU OUT
30	SCK AU OUT
31	H:AUDIO STB OUT
32	RESET AU OUT
33	TENREG RELEASE IN
34	NC
35	NC
36	-5.3V IN
37	+5.3V IN
38	+9V IN
39	GND
40	UNREG GND
41	UNREG GND
42	UNREG +12V IN
43	UNREG +12V IN





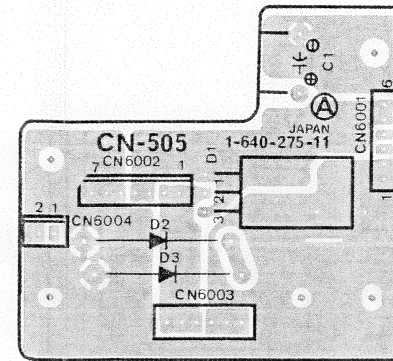
### Location of the Printed Circuit Boards



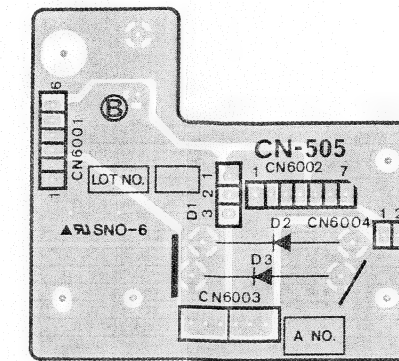
**CN-505 BOARD**

DC Input Power/Breaker Relay

A Side

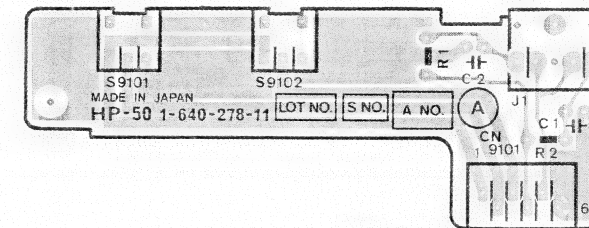
**CN-505 -A SIDE-**1-640-275-11  
PVV-1  
PVV-1P

B Side

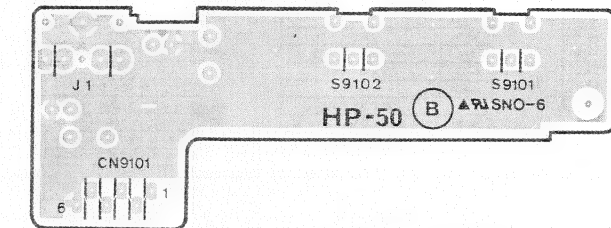
**CN-505 -B SIDE-**1-640-275-11  
PVV-1  
PVV-1P**HP-50 BOARD**

Earphone, Phantom ON/OFF Switch

A Side

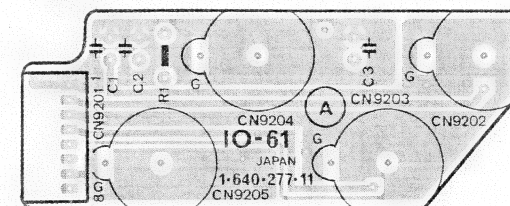
**HP-50 -A SIDE-**1-640-278-11  
PVV-1  
PVV-1P

B Side

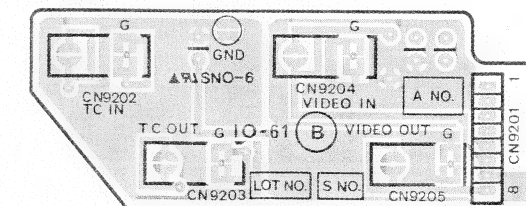
**HP-50 -B SIDE-**1-640-278-11  
PVV-1  
PVV-1P**IO-61 BOARD**

BNC Connector

A Side

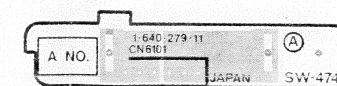
**IO-61 -A SIDE-**1-640-277-11  
PVV-1  
PVV-1P

B Side

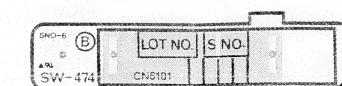
**IO-61 -B SIDE-**1-640-277-11  
PVV-1  
PVV-1P**SW-474 BOARD**

Breaker

A Side

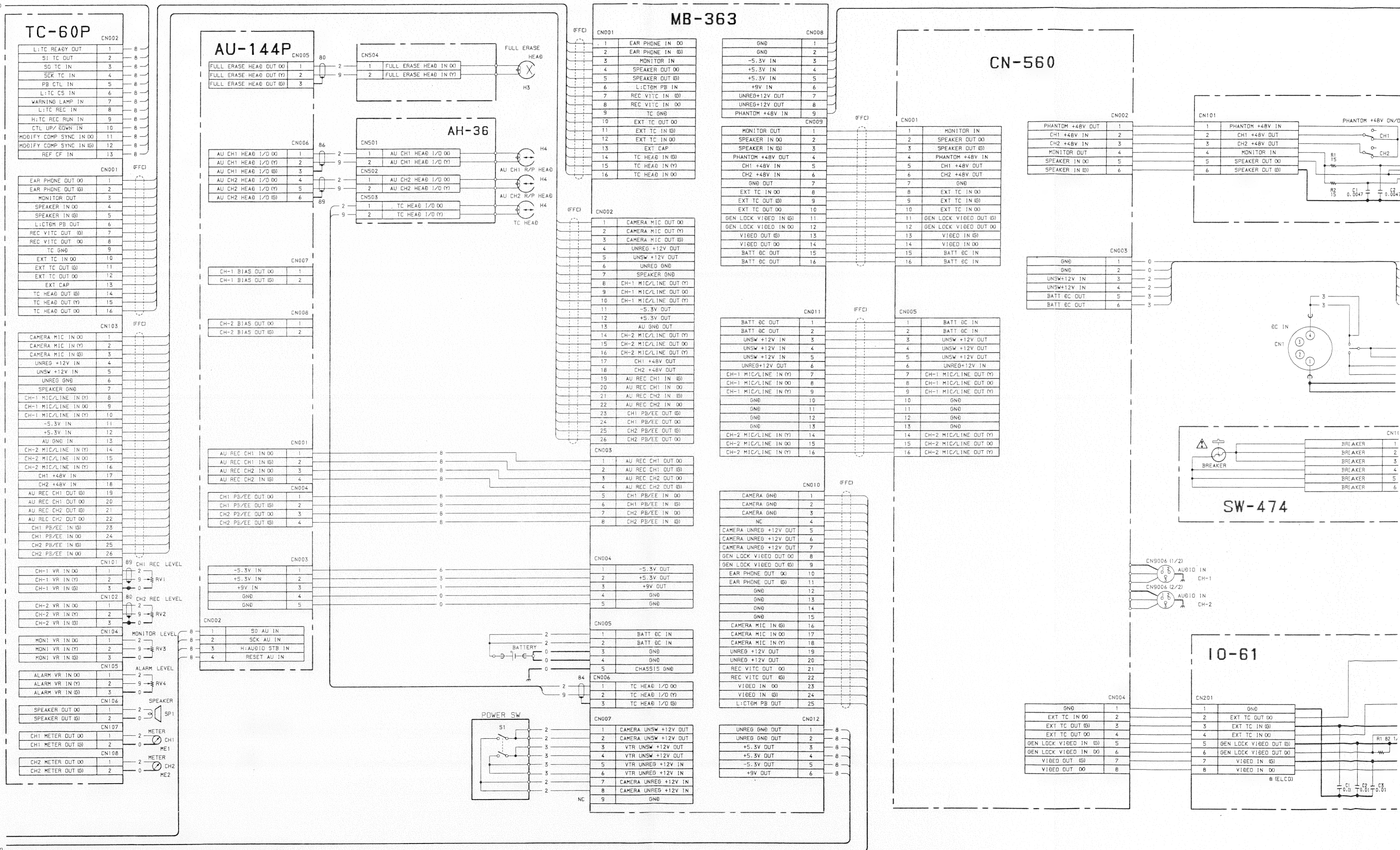
**SW-474 -A SIDE-**1-640-279-11  
PVV-1  
PVV-1P

B Side

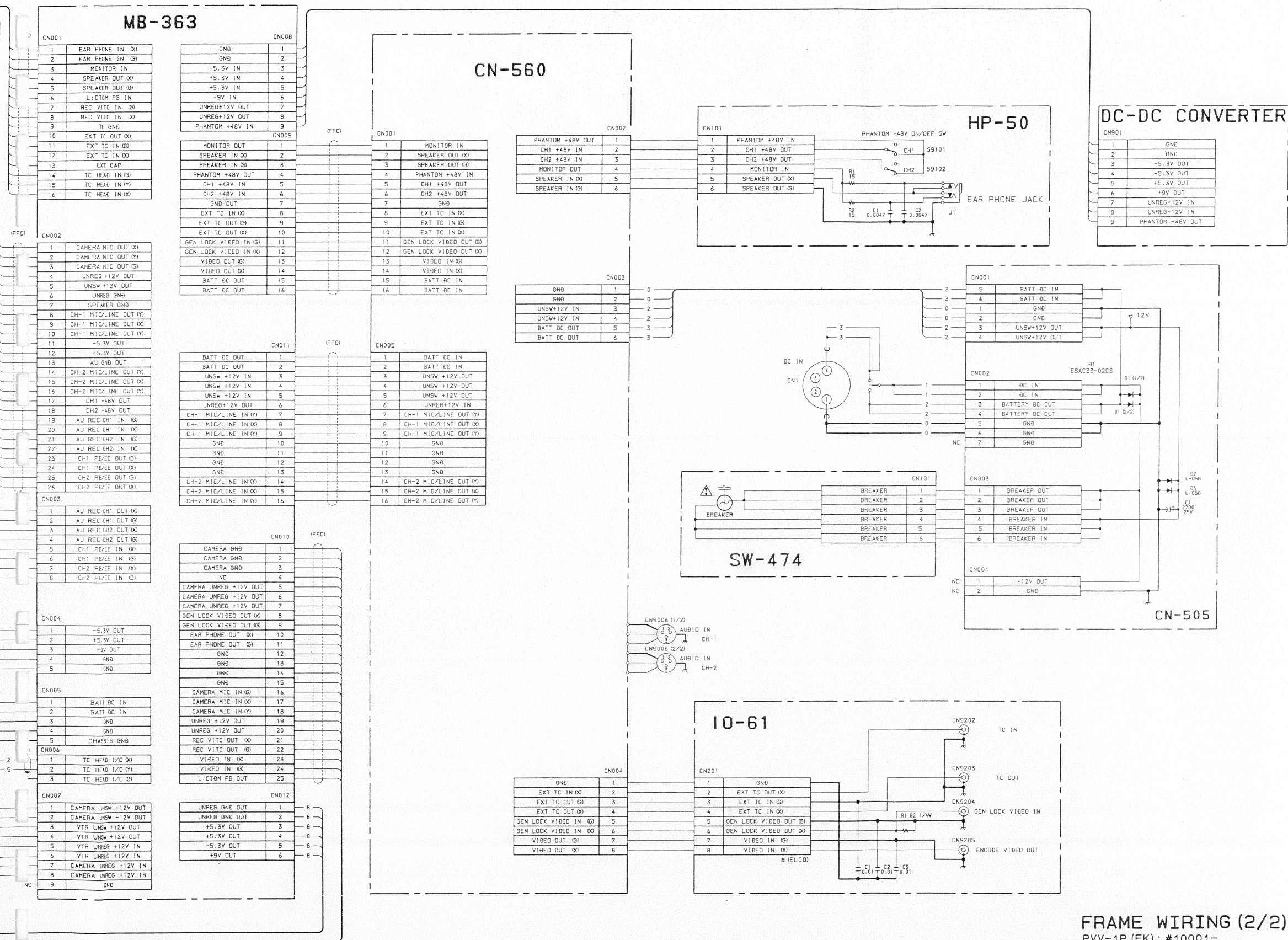
**SW-474 -B SIDE-**1-640-279-11  
PVV-1  
PVV-1P



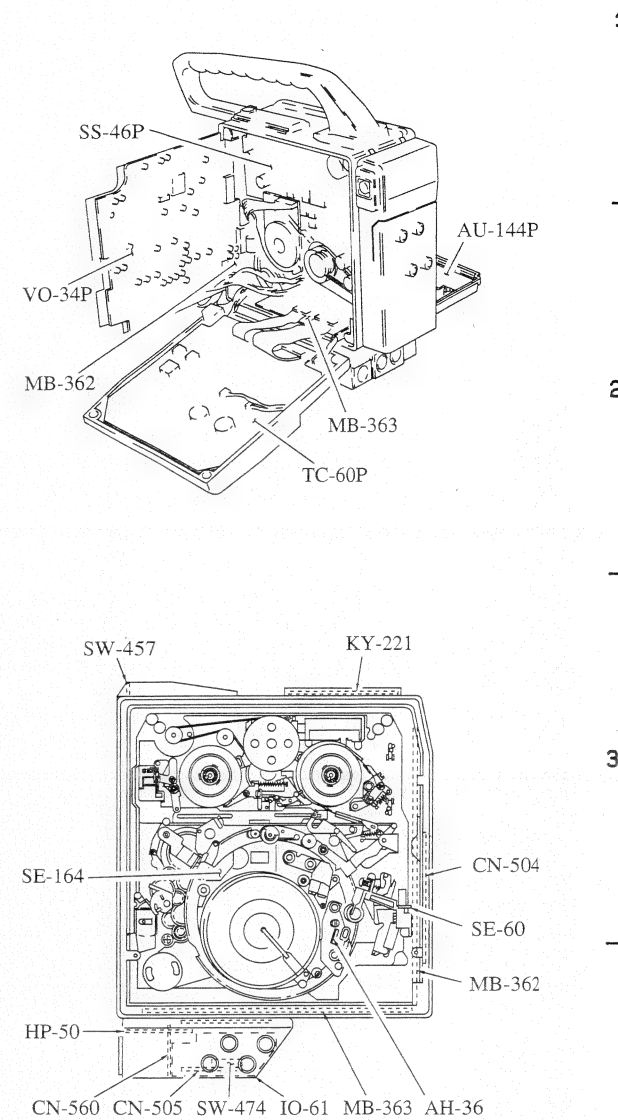
## FRAME WIRING (2/2)

TO/FROM  
FRAME WIRING (1/2)TO/FROM  
FRAME WIRING (1/2)





Location of the Printed Circuit Boards



FRAME WIRING (2/2)  
PVV-1P (EK) ; #10001-

## SECTION 12

### SEMICONDUCTOR PIN ASSIGNMENT

この章の図の中には互換性のないダイオード、トランジスタ、ICが併記されていることがあります。部品を交換するときには必ず部品表を参照してください。

等価回路はICメーカーのData Bookに従いました。

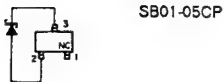
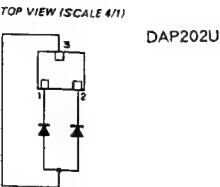
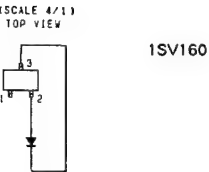
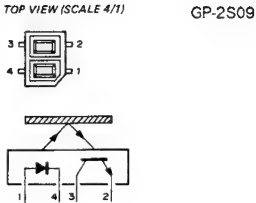
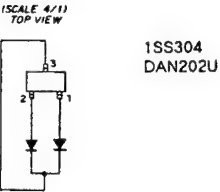
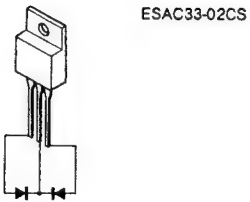
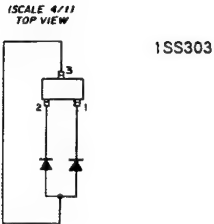
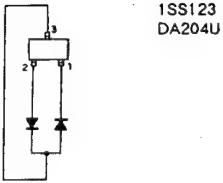
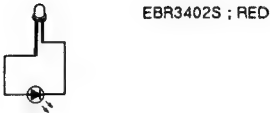
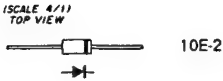
The chart in this section may sometimes show diodes, transistors, and ICs that are not interchangeable. When replacing a component, be sure to refer to the parts list.

The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

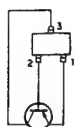
DIODE	PAGE	TRANSISTOR	PAGE	IC	PAGE	IC	PAGE
10E-2 .....	12-2	2SA1255Y .....	12-3	BA6229 .....	12-4	NJM4556M-A .....	12-17
1SS123 .....	12-2	2SA1462 .....	12-3	CX20030 .....	12-4	NJM4560MD .....	12-17
1SS303 .....	12-2	2SA1611 .....	12-3	CX7991 .....	12-5	RC2041MD .....	12-17
1SS304 .....	12-2	2SB1115A .....	12-3	CXA1098Q .....	12-5	RC2043MD .....	12-17
1SV160 .....	12-2	2SB624 .....	12-3	CXA1179N .....	12-5	RC4558M .....	12-17
DA204U .....	12-2	2SB907 .....	12-3	CXA1451M .....	12-6	RH5VA30CA .....	12-17
DAN202U .....	12-2	2SC1623 .....	12-3	CXA1480Q .....	12-6	S-8054HN-CB .....	12-17
DAP202U .....	12-2	2SC2712G .....	12-3	CXD1128Q .....	12-6	S-81230AG-RB .....	12-17
EBR3402S .....	12-2	2SC2713G .....	12-3	CXD1132Q .....	12-7	SN74HC04ANS .....	12-17
ERA81-004 .....	12-2	2SC2873Y .....	12-3	CXD1151Q .....	12-8	SN74HC14ANS .....	12-17
ESAC33-02CS .....	12-2	2SC3360 .....	12-3	CXD1171M .....	12-9	TA7267P .....	12-17
GP-2S09-B .....	12-2	2SC3735 .....	12-3	CXD1175AM .....	12-9	TC4S01F .....	12-18
RD ? ? ESB ? .....	12-2	2SC4116-YG .....	12-3	CXD8042Q .....	12-12	TC4S11F .....	12-18
RD ? ? FB ? .....	12-2	2SC4177 .....	12-3	CXK1011P .....	12-13	TC4S30F .....	12-18
SB01-05CP .....	12-2	2SC4178 .....	12-3	CXP80116-845Q .....	12-10	TC4S584F .....	12-18
U05G .....	12-2	2SC4213B .....	12-3	LA7205M .....	12-13	TC4S69F .....	12-18
		2SD1164 .....	12-3	LM2901M .....	12-13	TC4S71F .....	12-18
		2SD1221 .....	12-3	LM2903M .....	12-13	TC4S81F .....	12-18
		2SD1615 .....	12-3	LM2904M .....	12-13	TC4SU69F .....	12-18
		2SD596 .....	12-3	MB88325PF .....	12-14	TC7SU04F .....	12-18
		2SJ132 .....	12-3	MC14011BF .....	12-15	TC74HC221AF .....	12-18
		2SK209G .....	12-3	MC14013BF .....	12-15	TC74HC4049AF .....	12-18
		2SK613-3 .....	12-3	MC14046BF .....	12-15	TC74HC4053AF .....	12-19
		2SK739-Z .....	12-3	MC14053BF .....	12-15	TL062CPS .....	12-19
		DTA114EU .....	12-3	MC14066BF .....	12-15	TL072CPS .....	12-19
		DTA144EU .....	12-3	MC14069UBF .....	12-15	UPC324G2 .....	12-19
		DTC114EU .....	12-3	MC14071BF .....	12-15	UPC358G2 .....	12-19
		DTC114YU .....	12-3	MC14094BF .....	12-16	UPC4572G2 .....	12-19
		DTC144EU .....	12-3	MC14538BF .....	12-16	UPC78L05T .....	12-19
				MC34182M .....	12-16	UPC78N05H .....	12-19
				NJM386M .....	12-16		
				NJM2041M-D .....	12-16		
				NJM2043M-D .....	12-16		
				NJM2903M .....	12-16		
				NJM2904M .....	12-17		



DIODE



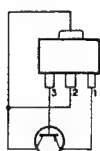
## TRANSISTOR



2SA1255Y  
2SA1462  
2SA1611  
2SB624



2SD1221



2SB1115A



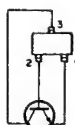
2SJ132



2SB907

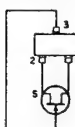


2SK739-Z

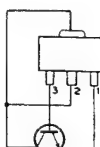


2SC1623  
2SC2712G  
2SC2713G  
2SC3360  
2SC3735  
2SC4116-YG  
2SC4177  
2SC4178  
2SD596  
2SC4213B

TOP VIEW (SCALE 4/1)

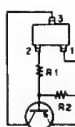


2SK209G  
2SK94  
2SK613-3

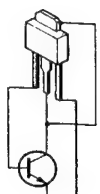


2SC2873Y  
2SD1615

TOP VIEW (SCALE 4/1)

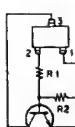


DTA114EU (R1 = 10K, R2 = 10K)  
DTA144EU (R1 = 47K, R2 = 47K)



2SD1164

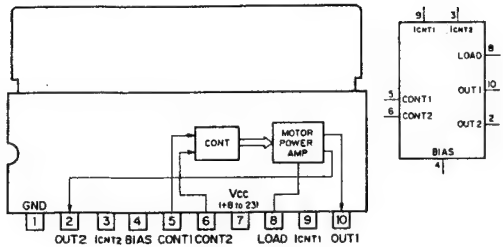
TOP VIEW (SCALE 4/1)



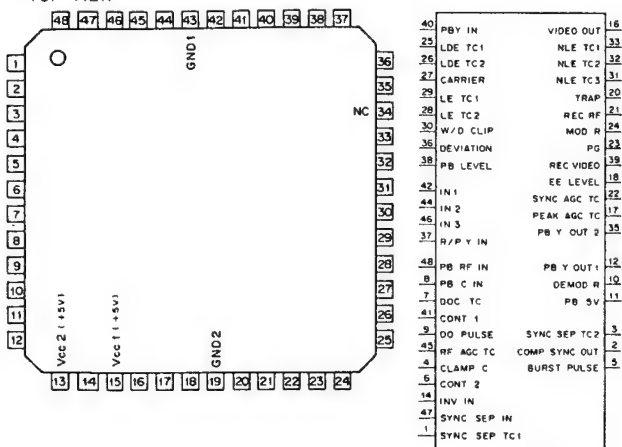
DTC114EU (R1 = 10K, R2 = 10K)  
DTC114YU (R1 = 10K, R2 = 47K)  
DTC144EU (R1 = 47K, R2 = 47K)

IC

BA6229 (ROHM)  
BI-DIRECTIONAL MOTOR DRIVER  
- SIDE VIEW -



CX20030 (SONY) FLAT PACKAGE  
VIDEO Y SIGNAL PROCESSOR  
- TOP VIEW -

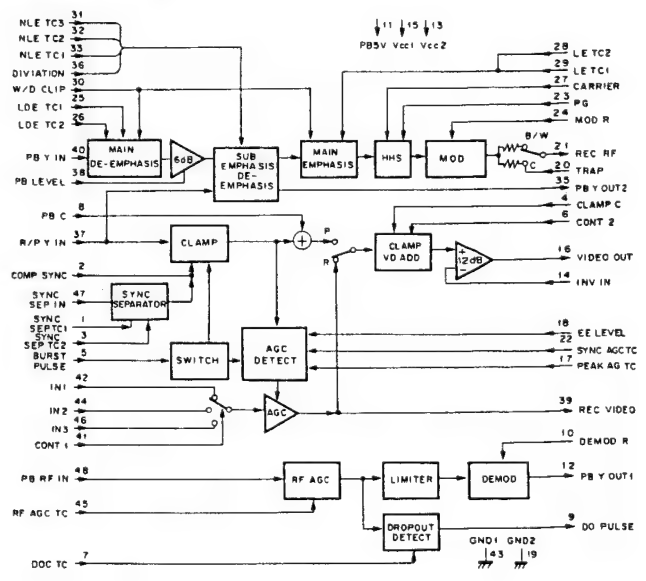


(VDD = +5V)

PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL
1	I	SYNC SEP TC1	17	I	PEAK AGC TC	33	I	NLE TC1
2	O	COMP SYNC	18	I	EE LEVEL	34	-	NC
3	I	SYNC SEP TC2	19	-	GND2	35	O	PB Y OUT2
4	I	CLAMP C	20	I	TRAP	36	I	DEVIATION
5	I	BURST PULSE	21	O	REC RF	37	I	R/P Y IN
6	I	CONT2	22	I	SYNC AGC TC	38	I	PB LEVEL
7	I	DOC TC	23	I	PG	39	O	REC VIDEO
8	I	PB C	24	I	MOD R	40	I	PB Y IN
9	O	DO PULSE	25	I	LDE TC1	41	I	CONT1
10	I	DEMOM R	26	I	LDE TC2	42	I	IN1
11	I	PB SV	27	I	CARRIER	43	-	GND1
12	O	PB Y OUT1	28	I	LE TC2	44	I	IN2
13	-	Vcc2	29	I	LE TC1	45	I	RF AGC TC
14	I	INV IN	30	I	W/D CLIP	46	I	IN3
15	-	Vcc1	31	I	NLE TC3	47	I	SYNC SEP IN
16	O	VIDEO OUT	32	I	NLE TC2	48	I	PB RF IN

INPUT  
BURST PULSE : BURST PULSE INPUT  
CARRIER : FM MODULATOR CARRIER CONTROL INPUT  
CLAMP C : EXTERNAL CAPACITOR FOR CLAMPING INPUT  
CONT 1 : INTERNAL SWITCH CONTROL INPUT  
CONT 2 : MUTING AND VD-ADD CONTROL INPUT  
DEMOM R : EXTERNAL RESISTOR FOR FM DEMODULATOR INPUT  
DEVIATION : DEVIATION CONTROL INPUT  
DOC TC : EXTERNAL CAPACITOR FOR DROPOUT DETECTION INPUT  
EE LEVEL : SYNC AGC CONTROL INPUT  
IN 1 - IN 3 : RECORDING VIDEO SIGNAL INPUTS  
INV IN : INVERTING INPUT FOR VIDEO CIRCUIT  
LDE TC1,TC2 : EXTERNAL RESISTOR FOR LINEAR DEEMPHASIS INPUTS  
LE TC1,TC2 : EXTERNAL CR FOR LINEAR EMPHASIS INPUTS  
NLE TC1 - NLE TC3 : EXTERNAL CAPACITOR FOR NON-LINEAR EMPHASIS INPUTS  
PB SV : POWER FOR PLAYBACK SYSTEM INPUT  
PB C : PB CHROMA INPUT AND M/C CONTROL INPUT  
PB LEVEL : PB Y OUT2 SIGNAL CONTROL INPUT  
PB RF IN : PB RF (FM) INPUT  
PB Y IN : PB Y SIGNAL FOR DEEMPHASIS INPUT  
PEAK AGC TC : EXTERNAL CR INPUT FOR PEAK AGC  
PG : PG (30Hz) SIGNAL INPUT  
RF AGC TC : EXTERNAL CR FOR RF AGC INPUT  
R/P Y IN : Y SIGNAL FOR CLAMPING INPUT  
SYNC AGC TC : EXTERNAL CR INPUT FOR SYNC AGC  
SYNC SEP IN : SYNC SEPARATION SIGNAL INPUT  
SYNC SEP TC1,TC2 : EXTERNAL CR INPUT FOR SYNC SEPARATION  
TRAP : TRAP INPUT  
W/D CLIP : LINEAR EMPHASIS AND W/D CLIP CONTROL INPUT

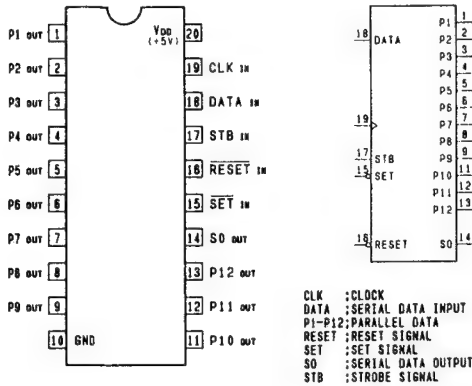
OUTPUT  
COMP SYNC : COMPOSITE SYNC OUTPUT  
DO PULSE : DROPOUT PULSE OUTPUT  
PB Y OUT1 : FREQUENCY DEMODULATOR OUTPUT  
PB Y OUT2 : PB Y OUTPUT  
REC RF : Y-FM SIGNAL OUTPUT  
REC VIDEO : AMPLIFIED Y SIGNAL OUTPUT  
VIDEO OUT : VIDEO OUTPUT



## CX7991 (SONY)

C-MOS 12-BIT SERIAL TO PARALLEL CONVERTER

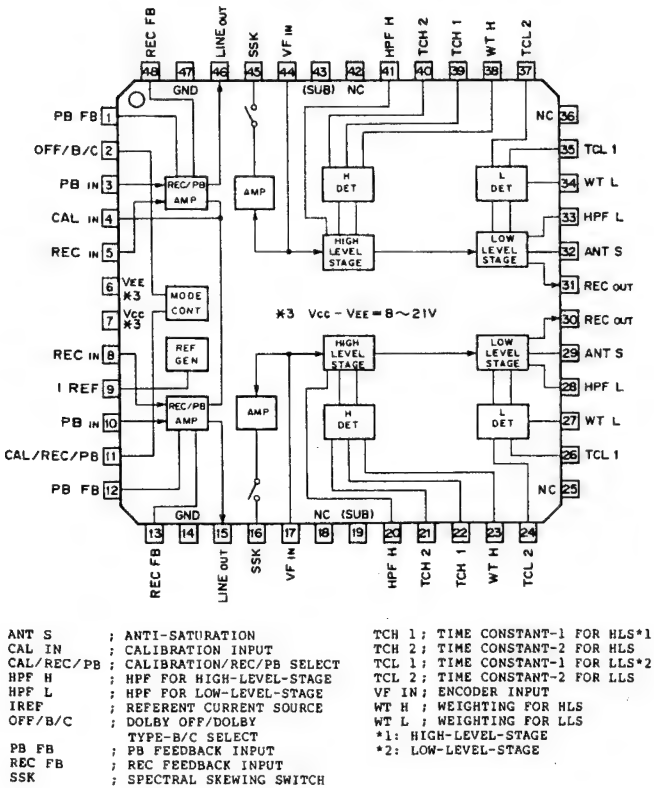
- TOP VIEW -



## CX1098Q (SONY) FLAT PACKAGE

2 CHANNELS DOLBY TYPE-B/C NOISE REDUCTION

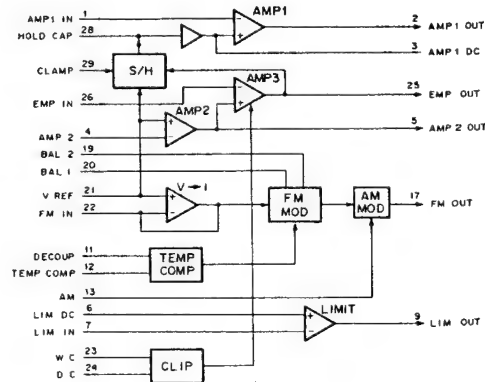
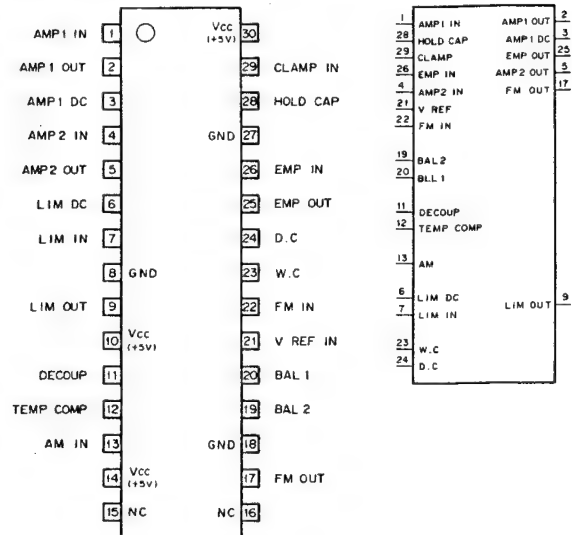
- TOP VIEW -



## CX1179N (SONY)

VIDEO Y/C REC FM MODULATOR FOR BETACAM

- TOP VIEW -



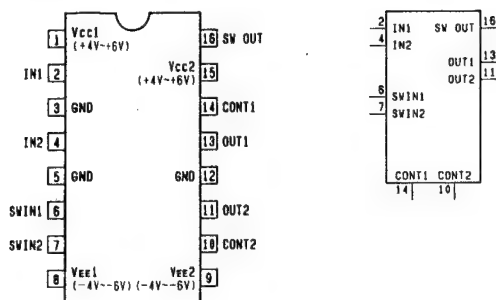
INPUT  
AM : AM SIGNAL IN  
AMP1 IN : VIDEO SIGNAL AMP1 IN  
AMP2 IN : VIDEO SIGNAL AMP2 IN  
CLAMP : CLAMP PULSE IN  
EMP IN : EMPHASIS AMP IN  
FM IN : FM MODULATOR IN  
LIM IN : LIMITER IN  
V REF : VOLTAGE REFERENCE IN

OUTPUT  
AMP1 OUT : VIDEO SIGNAL AMP1 OUT  
AMP2 OUT : VIDEO SIGNAL AMP2 OUT  
EMP OUT : EMPHASIS AMP OUT  
FM OUT : FM MODULATOR OUT  
LIM OUT : LIMITER OUT

OTHER  
BAL 1, BAL 2 : MODULATOR BALANCE ADJUSTMENT  
D.C : DARK CLIP ADJUSTMENT  
DECOUP : DECOUPLING CAPACITOR  
HOLD CAP : HOLD CAPACITOR  
LIM DE : LIMITER DECOUPLING CAPACITOR  
TEMP COMP : TEMPERATURE COMPENSATION  
W.C : WHITE CLIP ADJUSTMENT  
AMP1 DC : AMP1 CLAMP DC

## CXA1451M (SONY)

WIDEBAND VIDEO SWITCH  
- TOP VIEW -



### INPUT

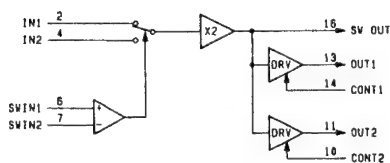
**INPUT**  
 CONT1, 2 : POWER SAVE CONTROL PIN OF DRV.1 AND DRV.2  
 INT1, 2 : 1/2-CHANNEL INPUT PIN  
 SWIN1, 2 : IN1/IN2 PINS SWITCH CONTROL PIN

## OUTPUT

```

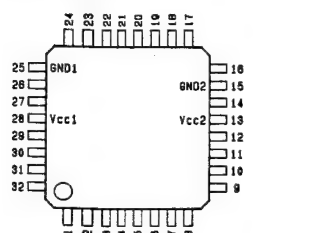
OUTPUT
OUT1, 2  ; OUTPUT PIN OF DRV1/2
SWOUT    ; OUTPUTS IN1 PIN OR IN2 PIN WHICH HAS BEEN
          SELECTED BY SWITCH.

```



## CXA1480Q (SONY)

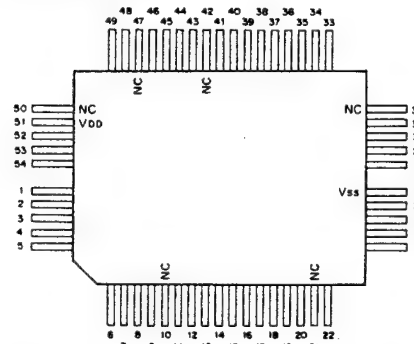
THROUGH RATE LIMITER  
- TOP VIEW -



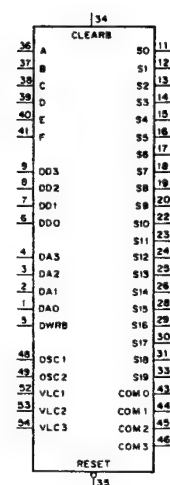
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	TH IN	17	O	SRL OUT
2	I	SRL CONT	18	I	SRL IN
3	I	SRL C	19	I	SR R IN
4	I	SRL REF	20	O	SR R OUT
5	I	LIM H	21	O	VCA OUT
6	I	LIM L	22	I	RG1 IN
7	I	SW IN2	23	O	RG1 OUT
8	I	SH IN	24	O	AMP OUT
9	O	SH C	25	—	GND1
10	O	SH OUT	26	I	AMP IN
11	I	SH PLS	27	I	AMP REF
12	I	SW PLS	28	—	Vcc1
13	—	Vcc2	29	I	RG2 IN
14	O	SW OUT	30	I	VCA CONT
15	—	GND2	31	O	COMP OUT
16	I	SW IN1	32	O	COMP SIG

CXD1128Q (SONY) FLAT PACKAGE

C-MOS LCD CONTROLLER/DRIVER  
- TOP VIEW -



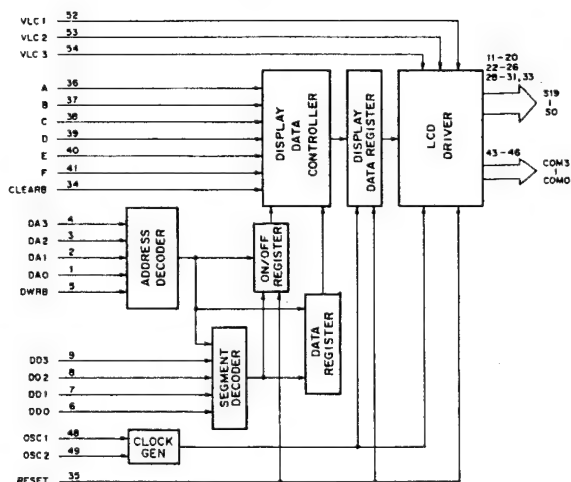
PINNO	I/O	SYMBOL	PINNO	I/O	SYMBOL	PINNO	I/O	SYMBOL
1	I	DA0	19	O	S8	37	I	B
2	I	DA1	20	O	S9	38	I	C
3	I	DA2	21	-	NC	39	I	D
4	I	DA3	22	O	S10	40	I	E
5	I	DWRB	23	O	S11	41	I	F
6	I	DD0	24	O	S12	42	-	NC
7	I	DD1	25	O	S13	43	O	COM0
8	I	DD2	26	O	S14	44	O	COM1
9	I	DD3	27	-	Vss	45	O	COM2
10	-	NC	28	O	S15	46	O	COM3
11	O	S0	29	O	S16	47	-	NC
12	O	S1	30	O	S17	48	I	OSC1
13	O	S2	31	O	S18	49	O	OSC2
14	O	S3	32	-	NC	50	-	NC
15	O	S4	33	O	S19	51	-	Vpp
16	O	S5	34	I	CLEARB	52	I	VLC1
17	O	S6	35	I	RESET	53	I	VLC2
18	O	S7	36	I	ASET	54	I	VLC3



```

A-F ; STATUS INPUT
COM3-0 ; LCD COMMON OUTPUTS
CLEARB ;
DA3-0 ; ADDRESS INPUTS
DD3-0 ; DATA INPUTS
DWRB ; WRITE PULSE INPUT
OSCI,2 ; CR ELEMENT
RESET ; RESET PULSE INPUT
S19-0 ; LCD SEGMENT OUTPUTS
VLC3-1 ;

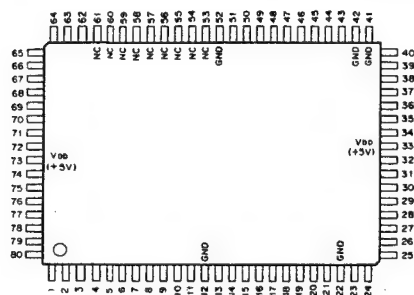
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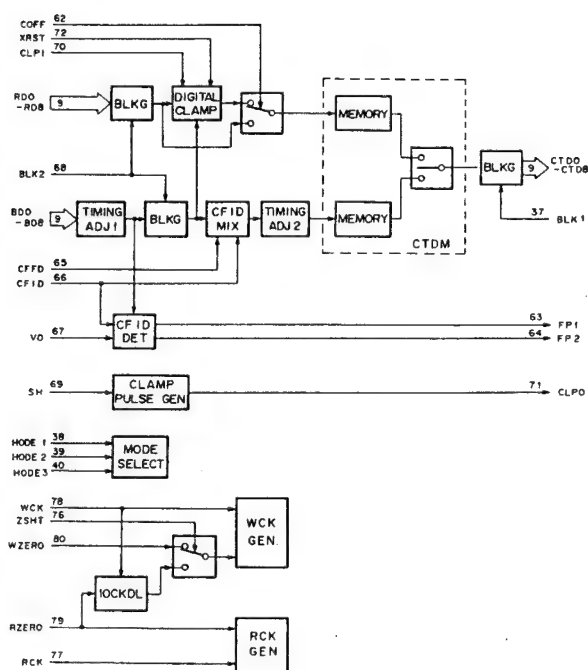


## CXD1151Q (SONY)

C-MOS VIDEO SIGNAL PROCESSOR FOR BETACAM  
- TOP VIEW -

## PIN ASSIGNMENT

Pin NO.	I/O	SIGNAL	Pin NO.	I/O	SIGNAL	Pin NO.	I/O	SIGNAL	Pin NO.	I/O	SIGNAL
1	I	R00	21	I	B08	41		NC	61		NC
2	I	R01	22	—	Vss (GND)	42	—	Vss (GND)	62	I	COFF
3	I	R02	23	O	TM0	43	O	CTD0	63	I	FP1
4	I	R03	24	O	TM1	44	O	CTD1	64	I	FP2
5	I	R04	25	O	TM2	45	O	CTD2	65	I	CFD0
6	I	R05	26	O	TM3	46	O	CTD3	66	I	CFID
7	I	R06	27	O	TM4	47	O	CTD4	67	I	VO
8	I	R07	28	O	TM5	48	O	CTD5	68	I	BLK2
9	I	R08	29	O	TM6	49	O	CTD6	69	I	SH
10	I	TSL2	30	O	TM7	50	O	CTD7	70	I	CLP1
11	I	TSL3	31	O	TM8	51	O	CTD8	71	O	CLP0
12	—	Vss (GND)	32	O	TM9	52	—	Vss (GND)	72	I	XRST
13	I	B00	33	I	VDD(+5V)	53	NC	73	I	VDD(+5V)	
14	I	B01	34	I	TM0D	54	NC	74	I	TST1	
15	I	B02	35	I	TMEN	55	NC	75	I	TST2	
16	I	B03	36	I	TSL1	56	NC	76	I	ZSHT	
17	I	B04	37	I	BLK1	57	NC	77	I	RCK	
18	I	B05	38	I	MODE1	58	NC	78	I	WCK	
19	I	B06	39	I	MODE2	59	NC	79	I	RZERO	
20	I	B07	40	I	MODE3	60	NC	80	I	WZERO	



1	R00	CTD0	43	RDO-RD8	: R-Y DATA INPUTS
2	R01	CTD1	44	BDO-BD8	: B-Y DATA INPUTS
3	R02	CTD2	45	COFF	: DIGITAL CLAMP CIRCUIT CONTROL INPUT
4	R03	CTD3	46	XRST	: DIGITAL CLAMP CIRCUIT RESET PULSE INPUT
5	R04	CTD4	47	CLP1	: CLAMP PULSE INPUT FOR DIGITAL CLAMP
6	R05	CTD5	48	CFFD	: FIELD SIGNAL INPUT FOR COLOR FRAMING ID MIX
7	R06	CTD6	49	CFID	: PULSE INPUT FOR COLOR FRAMING ID MIX
8	R07	CTD7	50	VO	: COLOR FRAMING DETECT CIRCUIT RESET PULSE INPUT
9	R08	CTD8	51	SH	: TRIGGER INPUT FOR CLP0 OUTPUT
13	B00	FP1	63	BLK1, BLK2	: BLKG PULSE INPUTS
14	B01	FP2	64	TSL1	: MEMORY SELECT INPUT IN TEST MODE
15	B02	CLP0	71	TSL2, TSL3	: TEST INPUTS
16	B03			TM0D	: TEST MODE CONTROL INPUT
17	B04	TM0	23	TMEN	: MEMORY ADD CONTROL INPUT IN TEST MODE
18	B05	TM1	24	TST1, TST2	: DIGITAL CLAMP CIRCUIT TEST CONTROL INPUTS
19	B06	TM2	25	WCK	: WRITE CLOCK INPUT
20	B07	TM3	26	RCK	: READ CLOCK INPUT
21	B08	TM4	27	WZERO	: WRITE ZERO INPUT
62	COFF	TM6	29	RZERO	: READ ZERO INPUT
72	XRST	TM7	30	ZSHT	: INTERNAL/EXTERNAL WZERO SELECT INPUT
70	CLP1	TM8	31	CTD0-CTD8	: CTD DATA OUTPUTS
65	CFFD	TM9	32	FP1, FP2	: COLOR FRAMING DETECT PULSE OUTPUTS
66	CFID			CLP0	: CLAMP PULSE OUTPUT
67	VO			TM0-TM9	: DIGITAL CLAMP CIRCUIT TEST SIGNAL OUTPUTS
69	SH			MODE1-MODE3	: MODE SELECT INPUTS
37	BLK1				
68	BLK2				
38	MODE1				
39	MODE2				
40	MODE3				
36	TSL1				
10	TSL2				
11	TSL3				
34	TM0D				
35	TMEN				
74	TST1				
75	TST2				
78	WCK				
77	RCK				
80	WZERO				
79	RZERO				
76	ZSHT				

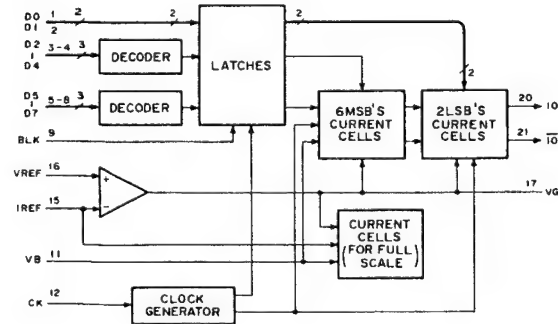
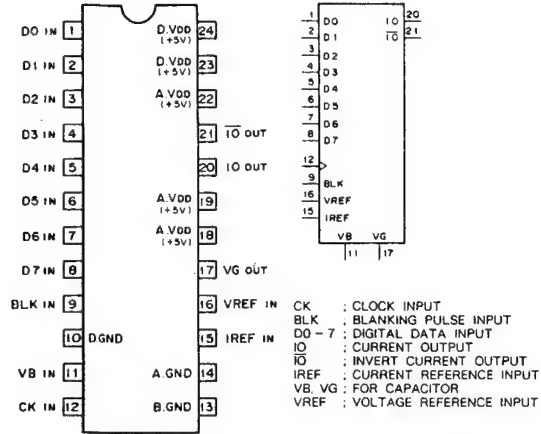
MODE1									
MODE2									
MODE3									
nH	910fH	858fH	909fH	X	908fH	864fH	1135fH	TCLR	

0: LOW LEVEL 1: HIGH LEVEL

## CXD1171M (SONY) FLAT PACKAGE

## C-MOS 8-BIT D/A CONVERTER

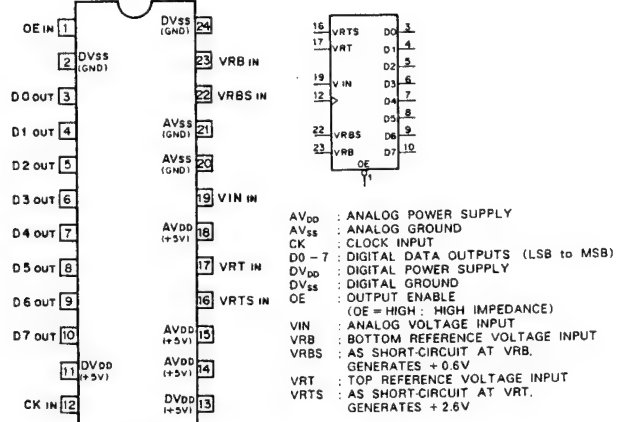
- TOP VIEW -



## CXD1175AM (SONY) FLAT PACKAGE

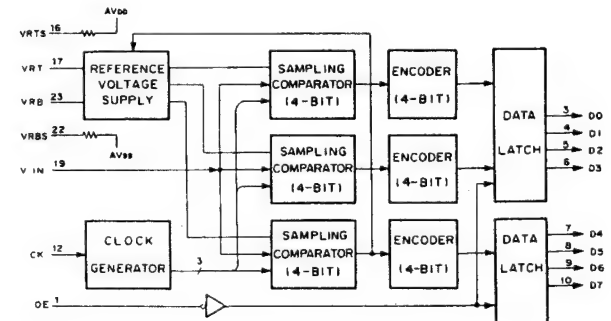
## C-MOS 8-BIT 20MSPS VIDEO A/D CONVERTER

- TOP VIEW -



STEP	INPUT SIGNAL VOLTAGE	DATA OUTPUTS							
		D7	D6	D5	D4	D3	D2	D1	D0
0	0V (VRT)	1	1	1	1	1	1	1	1
1	0.01V	1	1	1	1	1	1	1	0
...	...	...	...	...	...	...	...	...	...
127	1.34V	1	0	0	0	0	0	0	0
128	1.35V	0	1	1	1	1	1	1	1
...	...	...	...	...	...	...	...	...	...
255	2.7V (VRB)	0	0	0	0	0	0	0	0

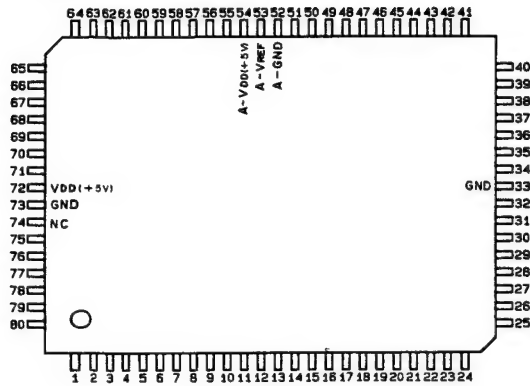
0 : LOW LEVEL  
1 : HIGH LEVEL



CXP80116-845Q (SONY)

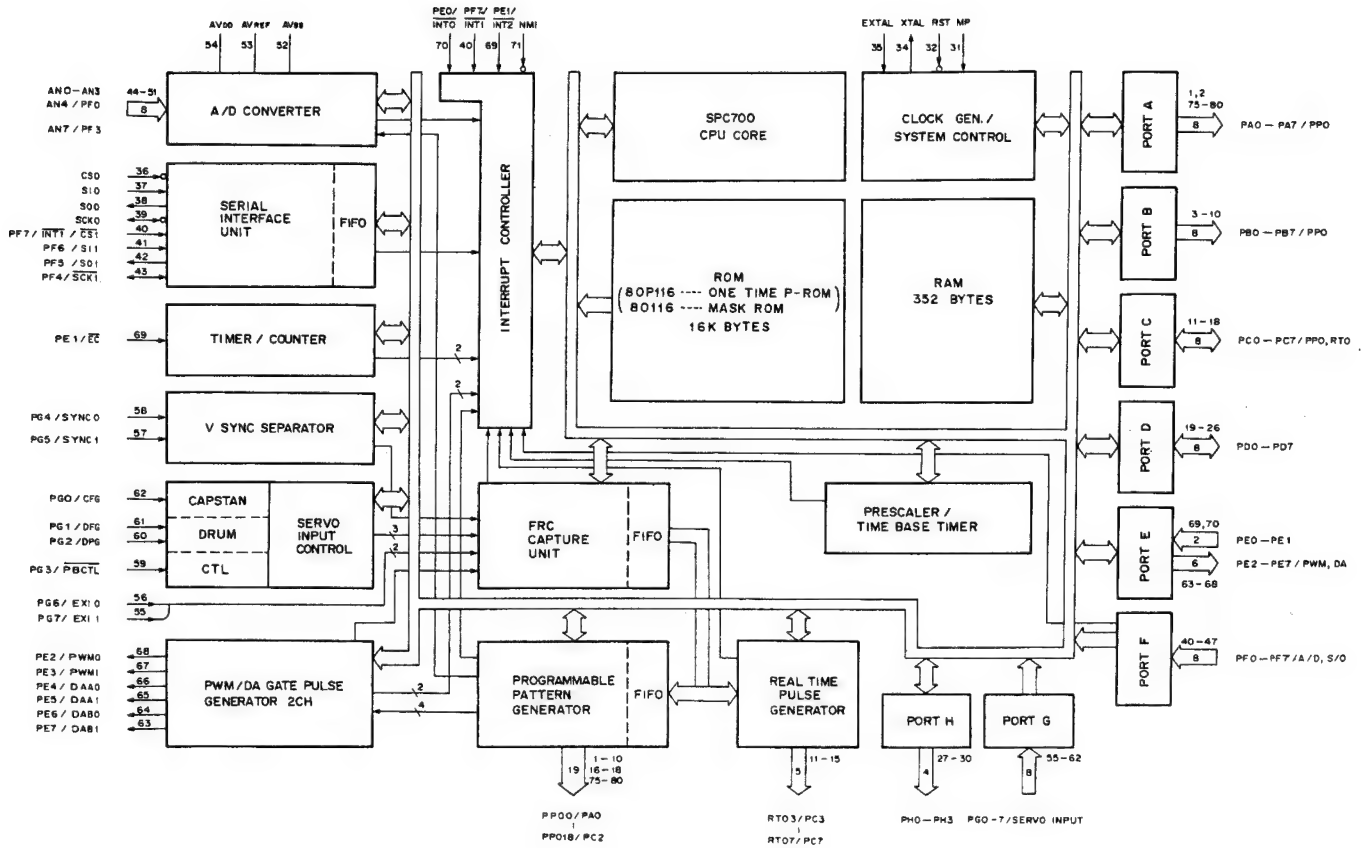
C-MOS 8-BIT MICROCOMPUTER

- TOP VIEW -

(V<sub>DD</sub> = +5V)

PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL
1	O	PA1/PP01/A9	41	I	PF6/S11
2	O	PA0/PP00/A8	42	I/O	PF5/S01
3	O	PB7/PP015/A7	43	I/O	PF4/SCK1
4	O	PB6/PP014/A6	44	I	PF3/AN7
5	O	PB5/PP013/A5	45	I	PF2/AN6
6	O	PB4/PP012/A4	46	I	PF1/AN5
7	O	PB3/PP011/A3	47	I	PF0/AN4
8	O	PB2/PP010/A2	48	I	AN3
9	O	PB1/PP09/A1	49	I	AN2
10	O	PB0/PP08/A0	50	I	AN1
11	I/O, O, I/O	PC7/RT07/D7	51	I	AN0
12	I/O, O, I/O	PC6/RT06/D6	52	-	A-GND
13	I/O, O, I/O	PC5/RT05/D5	53	-	A-VREF
14	I/O, O, I/O	PC4/RT04/D4	54	-	A-VDD
15	I/O, O, I/O	PC3/RT03/D3	55	I	PG7/EX11
16	I/O, O, I/O	PC2/PP018/D2	56	I	PG6/EX10
17	I/O, O, I/O	PC1/PP017/D1	57	I	PG5/SYNC1
18	I/O, O, I/O	PC0/PP016/D0	58	I	PG4/SYNC0
19	I/O, O	PD7/HALT	59	I	PG3/PBCTL
20	I/O, O	PD6/BRQ	60	I	PG2/DPG
21	I/O, O	PD5/BAK	61	I	PG1/DFG
22	I/O, O	PD4/SYNC	62	I	PG0/CFG
23	I/O, O	PD3/C	63	O	PE7/DAB1
24	I/O, O	PD2/R/W	64	O	PE6/DAB0
25	I/O, O	PD1/W	65	O	PE5/DAA1
26	I/O, O	PD0/RD	66	O	PE4/DAA0
27	O	PH3	67	O	PE3/PWM1
28	O	PH2	68	O	PE2/PWM0
29	O	PH1	69	I	PE1/EC/INT2
30	O	PH0	70	I	PE0/INT0
31	I	MP	71	I	NMI
32	I/O	RST	72	-	VDD
33	-	GND	73	-	GND
34	O	XTAL	74	-	NC
35	I	EXTAL	75	O	PA7/PP07/A15
36	I	CS0	76	O	PA6/PP06/A14
37	I	SI0	77	O	PA5/PP05/A13
38	O	SO0	78	O	PA4/PP04/A12
39	I/O	SCK0	79	O	PA3/PP03/A11
40	I	PF7/INT1/CS1	80	O	PA2/PP02/A10

18	PC0/PP016/D0	PB0/PP08/A0	10	AN0 - AN7	: ANALOG INPUTS
17	PC1/PP017/D1	PB1/PP09/A1	9	BRQ	: BUS REQUEST INPUT
16	PC2/PP018/D2	PB2/PP10/A2	8	CFG	: CAPSTAN FG INPUT
15	PC3/RT03/D3	PB3/PP011/A3	7	CS0,1	: CHIP SELECT INPUTS
14	PC4/RT04/D4	PB4/PP012/A4	6	DFG	: DRUM FG INPUT
13	PC5/RT05/D5	PB5/PP013/A5	5	DFG	: DRUM PG INPUT
12	PC6/RT06/D6	PB6/PP014/A6	4	EC	: EVENT INPUT
11	PC7/RT07/D7	PB7/PP15/A7	3	EX10,1	: EXTERNAL INPUTS
		PA0/PP00/A8	2	EXTAL	: SYSTEM CLOCK GENERATE JOINT
		PA1/PP01/A9	1	HALT	: CPU STOP INPUT
31	AN0	PA2/PP02/A10	80	INT0 - INT2	: EXTERNAL OFFERING INPUTS
50	AN1	PA3/PP03/A11	79	MP	: MICRO PROCESSOR MODE INPUT
49	AN2	PA4/PP04/A12	78	NMI	: NONMASKABLE OFFERING INPUT
48	AN3	PA5/PP05/A13	77	PBCTL	: PB CTL PULSE INPUT
47	PF0/AN4	PA6/PP06/A14	76	PE0,1	: PORT E INPUTS
46	PF1/AN5	PA7/PP07/A15	75	PF0 - PF7	: PORT F INPUTS
45	PF2/AN6		74	PG0 - PG7	: PORT G INPUTS
44	PF3/AN7		73	SI0,1	: SERIAL DATA INPUTS
			72	SYNC0,1	: COMPOSITE SYNC INPUTS
52	PG0/CFG	PE2/PWM0	69	OUTPUT	
51	PG1/DFG	PE3/PWM1	68	A0 - A15	: ADDRESS BUS OUTPUTS
50	PG2/DFG	PE4/DAA0	67	BAK	: BUS ACKNOWLEDGE OUTPUT
49	PG3/PBCTL	PE5/DAA1	66	C	: TIMING SIGNAL OUTPUT
48	PG4/SYNC 0	PE6/DAB0	65	DAA0,1	: DA GATE PULSE OUTPUTS
47	PG5/SYNC 1	PE7/DAB1	64	DAB0,1	: DA GATE PULSE OUTPUTS
46	PG6/EX10		63	PA0 - PA7	: PORT A OUTPUTS
45	PG7/EX11		62	PB0 - PB7	: PORT B OUTPUTS
44			61	PE2 - PE7	: PORT E OUTPUTS
43			60	PH0 - PH3	: PORT H OUTPUTS
42			59	PP00 - PP018	: PROGRAMMABLE PATTERN GENERATOR OUTPUTS
41			58	PWM0,1	: PWM OUTPUTS
40			57	R/W	: CPU MACHINE CYCLE
39			56	RD	: READ
38			55	RT03 - RT07	: REAL TIME PULSE OUTPUTS
37			54	SO0,1	: SERIAL DATA OUTPUTS
36			53	SYNC	: SYNC
35			52	WR	: WRITE
34			51	XTAL	: SYSTEM CLOCK GENERATOR OUTPUT
33			50		
32			49		
31			48		
30			47		
29			46		
28			45		
27			44		
26			43		
25			42		
24			41		
23			40		
22			39		
21			38		
20			37		
19			36		
18			35		
17			34		
16			33		
15			32		
14			31		
13			30		
12			29		
11			28		
10			27		
9			26		
8			25		
7			24		
6			23		
5			22		
4			21		
3			20		
2			19		
1			18		

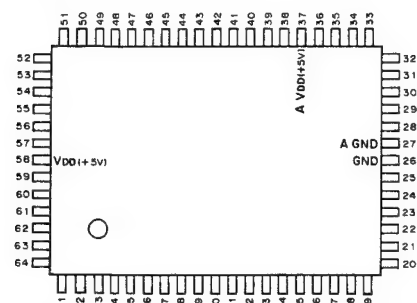




## CXD8042Q (SONY) FLAT PACKAGE

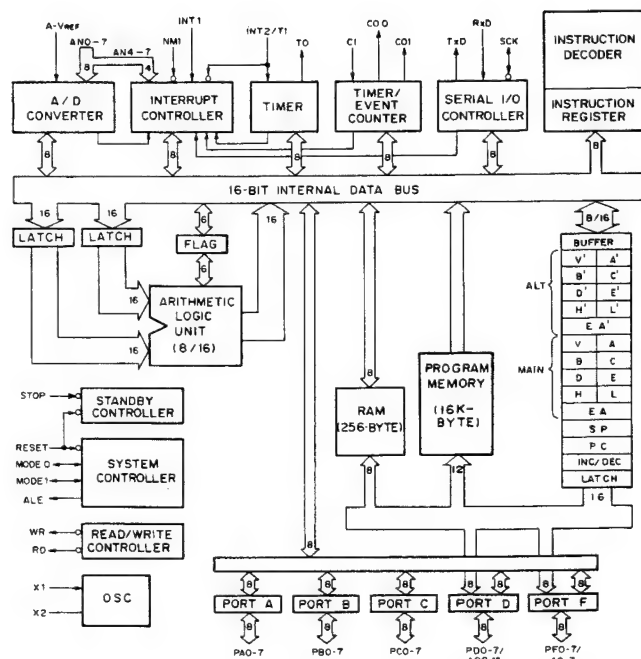
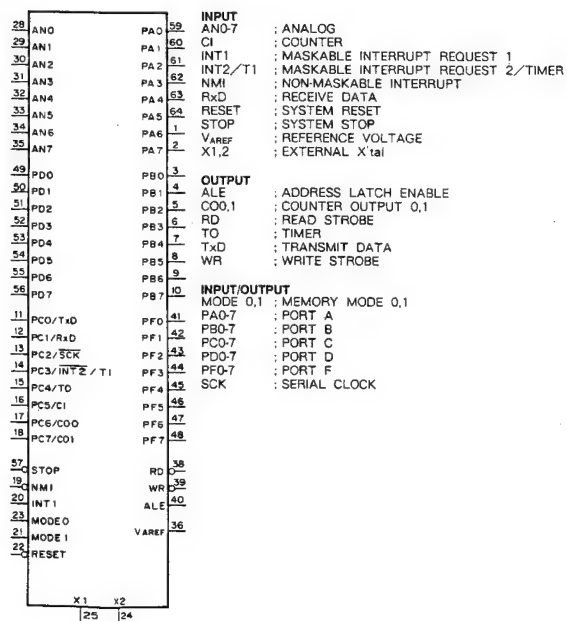
## CMOS TIMECODE CONTROLLER

## - TOP VIEW -

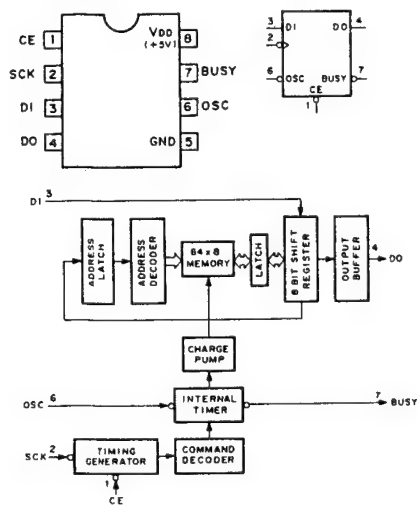


(A  $V_{DD} = +5V$ )  
( $V_{DD} = +5V$ )

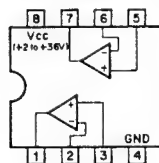
PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I/O	PA6	17	I/O	PC6/CO0	33	I	AN5	49	I/O	PD0
2	I/O	PA7	18	I/O	PC7/CO1	34	I	AN6	50	I/O	PD1
3	I/O	PB0	19	I	NMI	35	I	AN7	51	I/O	PD2
4	I/O	PB1	20	I	INT1	36	I	VAREF	52	I/O	PD3
5	I/O	PB2	21	I/O	MODE1	37	-	A VDD	53	I/O	PD4
6	I/O	PB3	22	I	RESET	38	O	RD	54	I/O	PD5
7	I/O	PB4	23	I/O	MODE0	39	O	WR	55	I/O	PD6
8	I/O	PB5	24	I	X2	40	O	ALE	56	I/O	PD7
9	I/O	PB6	25	I	X1	41	I/O	PF0	57	I	STOP
10	I/O	PB7	26	-	GND	42	I/O	PF1	58	-	VDD
11	I/O	PC0/TxD	27	-	A GND	43	I/O	PF2	59	I/O	PA0
12	I/O	PC1/RxD	28	I	AN0	44	I/O	PF3	60	I/O	PA1
13	I/O	PC2/SCK	29	I	AN1	45	I/O	PF4	61	I/O	PA2
14	I/O	PC3/INT2/T1	30	I	AN2	46	I/O	PF5	62	I/O	PA3
15	I/O	PC4/TO	31	I	AN3	47	I/O	PF6	63	I/O	PA4
16	I/O	PC5/CI	32	I	AN4	48	I/O	PF7	64	I/O	PA5



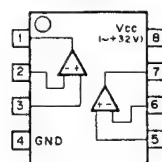
## CXK1011P (SONY)

N-MOS 512-BIT (64x8) NON-VOLATILE MEMORY  
- TOP VIEW -

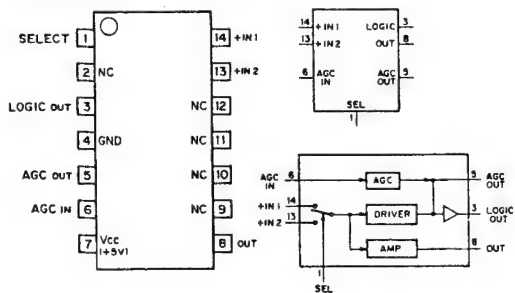
## LM2903M (RAYTHEON) FLAT PACKAGE

DUAL VOLTAGE COMPARATORS  
- TOP VIEW -

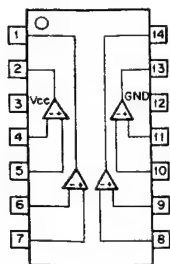
## LM2904M (NSC) FLAT PACKAGE

OPERATIONAL AMPLIFIER  
- TOP VIEW -

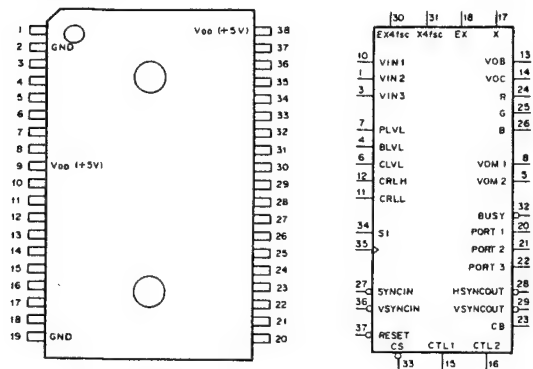
## LA7205M (SANYO)

AGC AMP, INPUT SELECT, AGC DET, COMPARATOR  
- SIDE VIEW -

## LM2901M (MOTOROLA)

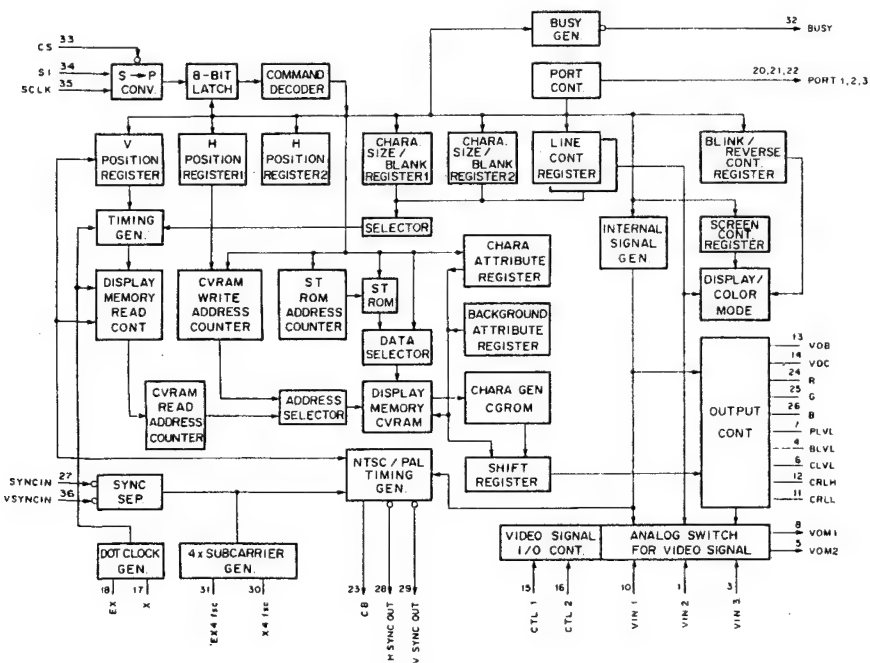
SINGLE SUPPLY COMPARATOR  
- TOP VIEW -

## MB88325PF (FUJITSU)

C-MOS PROGRAMMABLE TV DISPLAY CONTROLLER  
- TOP VIEW -

VDD = +5V

PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	VIN2	14	O	VOC	27	I	VSYNOUT
2	-	GND	15	I	CTL1	28	O	HSYNOUT
3	I	VIN3	16	I	CTL2	29	O	VSYNOUT
4	I	BLVL	17	O	X	30	O	X4 fsc
5	O	VOM2	18	I	EX	31	I	EX4 fsc
6	I	CLVL	19	-	GND	32	O	BUSY
7	I	PLVL	20	O	PORT1	33	I	CS
8	O	VOM1	21	O	PORT2	34	I	SI
9	-	VDD	22	O	PORT3	35	I	SCLK
10	I	VIN1	23	O	CB	36	I	VSYNOUT
11	I	CRLH	24	O	R	37	I	RESET
12	I	CRLH	25	O	G	38	-	VDD
13	O	VOB	26	O	B			



INPUT

- BLVL : BORDER OR BACKGROUND LEVEL CONTROL IN
- CLVL : CHARACTER LEVEL CONTROL IN
- CRLH : CHROMA HIGH LEVEL CONTROL IN
- CRLH : CHROMA LOW LEVEL CONTROL IN
- CS : CHIP SELECT IN
- CTL1 : CHARACTER MIX OUTPUT SELECT IN
- CTL2 : VIDEO INPUT SELECT IN
- VSYNIN : COMP SYNC IN
- PLVL : INTERNAL VIDEO SIGNAL LEVEL CONTROL IN
- RESET : RESET IN
- SCLK : SHIFT CLOCK IN
- SI : SERIAL DATA IN
- VIN1 : VIDEO SIGNAL IN1
- VIN2 : VIDEO SIGNAL IN2
- VIN3 : VIDEO SIGNAL IN3
- VSYNIN : V SYNC IN

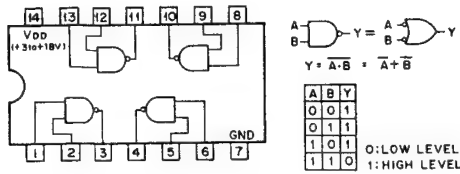
OUTPUT

- B : BLUE SIGNAL OUT
- BUSY : BUSY OUT
- CB : COLOR BURST SIGNAL OUT
- G : GREEN SIGNAL OUT
- HSYNOUT : H SYNC OUT
- PORT1 : OUTPUT PORT1
- PORT2 : OUTPUT PORT2
- PORT3 : OUTPUT PORT3
- PLVL : RED SIGNAL OUT
- VOB : BORDER OR BACKGROUND SIGNAL OUT
- VOC : CHARACTER SIGNAL OUT
- VOM1 : VIDEO SIGNAL OUT1
- VOM2 : VIDEO SIGNAL OUT2
- VSYNOUT : V SYNC OUT

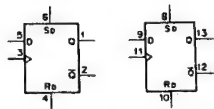
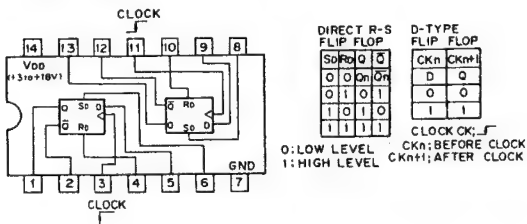
OTHER

- X, EX : DOT CLOCK
- X4fsc, EX4fsc : COLOR BURST CLOCK

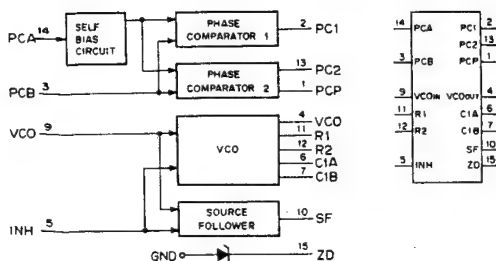
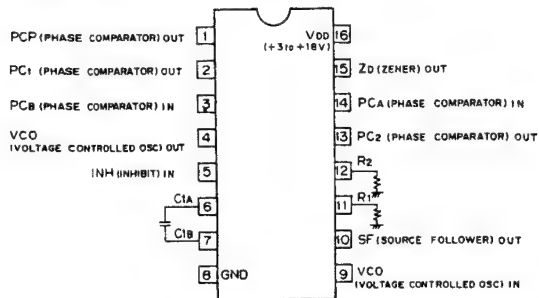
## MC14011BF (MOTOROLA) FLAT PACKAGE

C-MOS 2-INPUT NAND GATE  
- TOP VIEW -

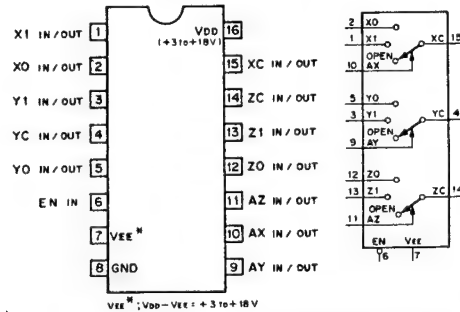
## MC14013BF (MOTOROLA) FLAT PACKAGE

C-MOS D-TYPE FLIP-FLOP WITH DIRECT SET/RESET  
- TOP VIEW -

## MC14046BF (MOTOROLA) FLAT PACKAGE

C-MOS PHASE LOCKED LOOP  
- TOP VIEW -

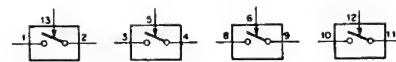
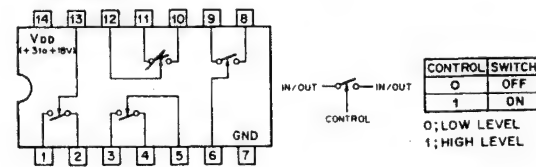
## MC14053BF (MOTOROLA) FLAT PACKAGE

C-MOS TRIPLE 2-CHANNEL ANALOG MULTIPLEXER/DEMULPLEXER  
- TOP VIEW -

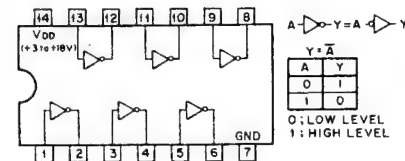
0: LOW LEVEL  
1: HIGH LEVEL  
X: DONT CARE.

CONT INPUTS		ON CHANNEL
EN	A (X,Y,Z)	
0	0	0
0	1	1
1	X	OPEN

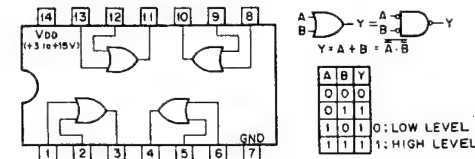
## MC14066BF (MOTOROLA) FLAT PACKAGE

C-MOS BILATERAL ANALOG SWITCH  
- TOP VIEW -

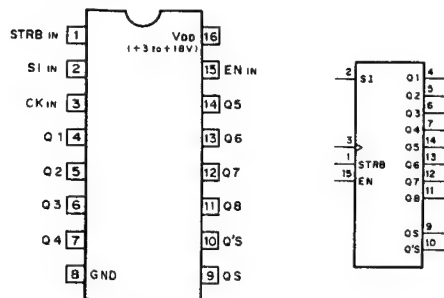
## MC14069UBF (MOTOROLA)

C-MOS INVERTER  
- TOP VIEW -

## MC14071BF (MOTOROLA) FLAT PACKAGE

C-MOS 2-INPUT OR GATE  
- TOP VIEW -

MC14094BF (MOTOROLA)  
CMOS 8-STAGE SHIFT-AND-STORE BUS REGISTER  
- TOP VIEW -



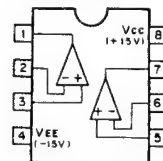
SI: SERIAL DATA INPUT  
CK: CLOCK INPUT  
STRB: STROBE INPUT  
EN: OUTPUT ENABLE INPUT  
Q1-Q8: PARALLEL DATA OUTPUTS  
Q'S, Q'S: SERIAL DATA OUTPUTS

INPUTS				PARALLEL OUT		SERIAL OUT	
CK	EN	STRB	SI	Q1	Qn	Q'S	Q'S
	0	X	X	HI-Z	HI-Z	Q7	NC
	0	X	X	HI-Z	HI-Z	Q7	NC
	1	0	X	NC	NC	Q7	NC
	1	1	0	0	Qn-1	Q7	NC
	1	1	1	1	Qn-1	Q7	NC
	1	1	1	NC	NC	NC	Q7

1: HIGH  
0: LOW  
X: DON'T CARE  
HI-Z: HIGH IMPEDANCE  
NC: NO CHANGE

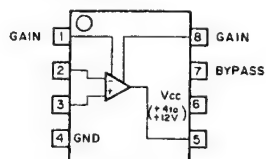
MC34182M (MOTOROLA) FLAT PACKAGE

OPERATIONAL AMPLIFIER  
(J FET-INPUT)  
- TOP VIEW -



NJM386M (JRC) FLAT PACKAGE

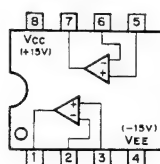
AUDIO POWER AMPLIFIER  
- TOP VIEW -



NJM2041M-D (JRC) FLAT PACKAGE

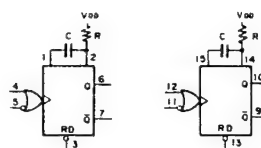
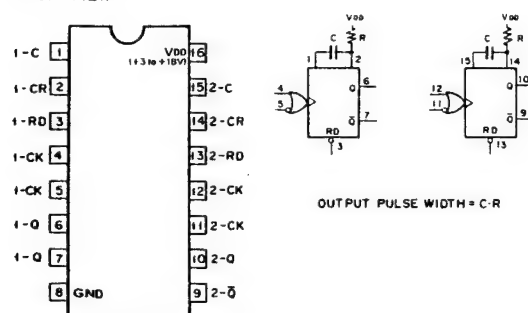
NJM2043M-D (JRC) FLAT PACKAGE

DUAL OPERATIONAL AMPLIFIER  
- TOP VIEW -



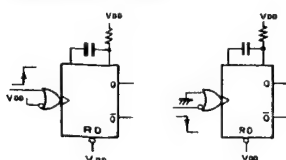
MC14538BF (MOTOROLA) FLAT PACKAGE

CMOS DUAL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR  
- TOP VIEW -

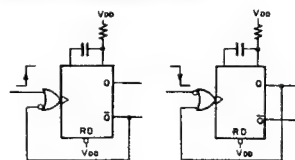


OUTPUT PULSE WIDTH = C \* R

RETRIGGERABLE M.M.V

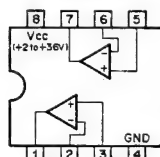


NON-RETRIGGERABLE M.M.V



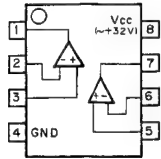
NJM2903M (JRC) FLAT PACKAGE

DUAL VOLTAGE COMPARATORS  
- TOP VIEW -

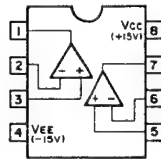




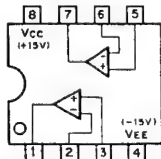
**NJM2904M (JRC) FLAT PACKAGE**  
**OPERATIONAL AMPLIFIER**  
 - TOP VIEW -



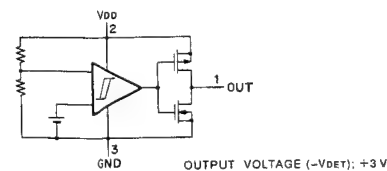
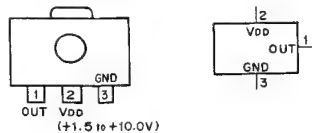
**NJM4556M-A (JRC) FLAT PACKAGE**  
**OPERATIONAL AMPLIFIER**  
**(WIDE BAND, DECOMPENSATED)**  
 - TOP VIEW -



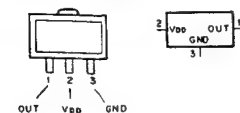
**NJM4560MD (JRC) FLAT PACKAGE**  
**RC2041MD (RAYTHEON) FLAT PACKAGE**  
**RC2043MD (RAYTHEON) FLAT PACKAGE**  
**RC4558M (RAYTHEON) FLAT PACKAGE**  
**DUAL OPERATIONAL AMPLIFIER**  
 - TOP VIEW -



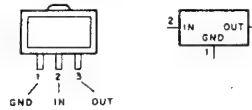
**RH5VA30CA (RICOH)**  
**C-MOS VOLTAGE DETECTOR**  
 - SIDE VIEW -



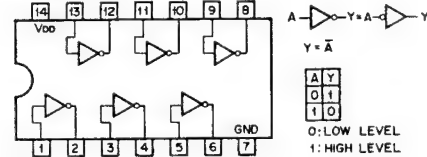
**S-8054HN-CB (SEIKO)**  
**+ 6V VOLTAGE DETECTOR WITH N-CHANNEL OPEN DRAIN OUTPUT**  
 - TOP VIEW -



**S-81230AG-RB (SEIKO) + 5.0V FLAT PACKAGE**  
**THREE TERMINAL POSITIVE VOLTAGE REGULATOR**  
 - TOP VIEW -



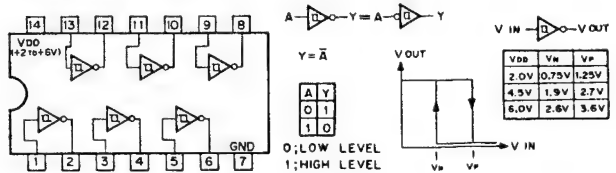
**SN74HC04ANS (TI) FLAT PACKAGE**  
**C-MOS HEX INVERTER**  
 - TOP VIEW -



NOTE:

TYPE	V <sub>DD</sub>
74ACT04 TYPES	+5V
74HCT04 TYPES	+5V
TC74AC04F	+2 to +5.5V
TC74ACT04F	+4.5 to +5.5V
OTHER TYPES	+2 to +6V

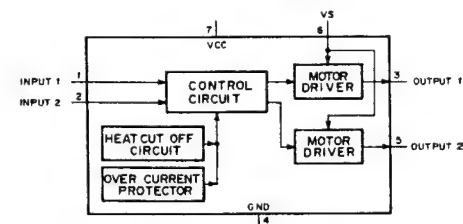
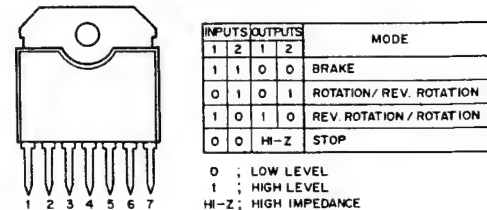
**SN74HC14ANS (TI) FLAT PACKAGE**  
**C-MOS SCHMITT TRIGGER INVERTER**  
 - TOP VIEW -



NOTE:

TYPE	V <sub>DD</sub>
74AC/74HC	+2 to +6V
TC74AC14	+2 to +5.5V

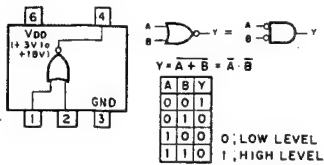
**TA7267P (TOSHIBA)**  
**DC MOTOR DRIVER**  
 - PRINTED SIDE VIEW -



## TC4S01F (TOSHIBA) FLAT PACKAGE

C-MOS 2-INPUT NOR GATE

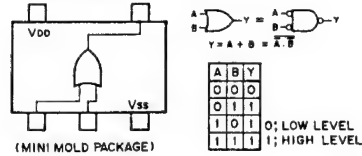
- TOP VIEW -



## TC4S71F (TOSHIBA) FLAT PACKAGE

C-MOS 2-INPUT OR GATE

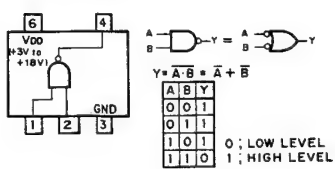
- TOP VIEW -



## TC4S11F (TOSHIBA) FLAT PACKAGE

C-MOS 2-INPUT NAND GATE

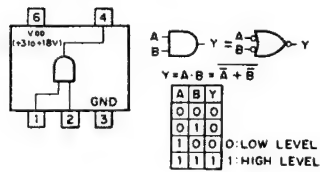
- TOP VIEW -



## TC4S81F (TOSHIBA) FLAT PACKAGE

C-MOS 2-INPUT AND GATE

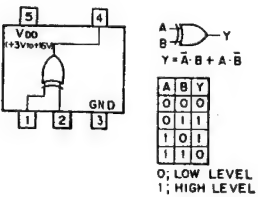
- TOP VIEW -



## TC4S30F (TOSHIBA) FLAT PACKAGE

C-MOS EXCLUSIVE OR GATE

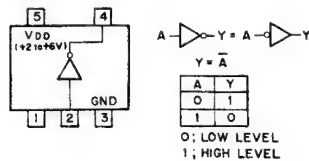
- TOP VIEW -



## TC7SU04F (TOSHIBA) FLAT PACKAGE

C-MOS INVERTER

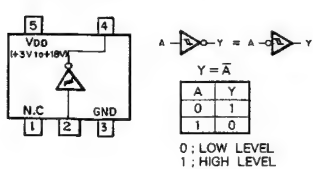
- TOP VIEW -



## TC4S584F (TOSHIBA) FLAT PACKAGE

C-MOS SCHMITT TRIGGER INVERTER

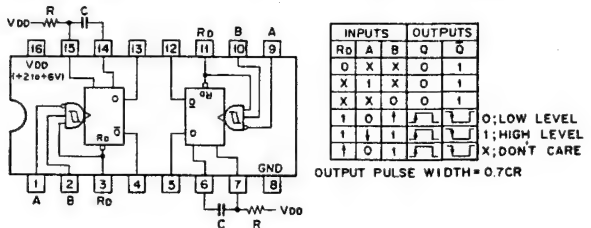
- TOP VIEW -



## TC74HC221AF (TOSHIBA) FLAT PACKAGE

C-MOS MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT

- TOP VIEW -

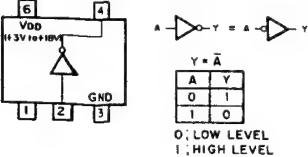


## TC4S69F (TOSHIBA) FLAT PACKAGE

TC4SU69F (TOSHIBA) FLAT PACKAGE

C-MOS INVERTER BUFFER

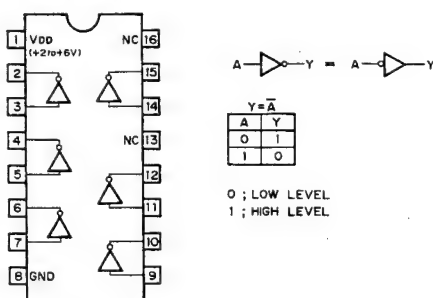
- TOP VIEW -



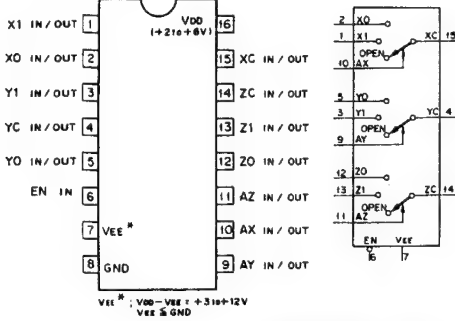
## TC74HC4049AF (TOSHIBA) FLAT PACKAGE

C-MOS HEX BUFFER/CONVERTER (INVERTING)

- TOP VIEW -



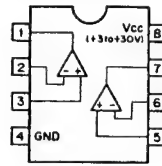
TC74HC4053AF (TOSHIBA) FLAT PACKAGE  
C-MOS TRIPLE 2-CHANNEL ANALOG MULTIPLEXER/DEMULTIPLEXER  
- TOP VIEW -



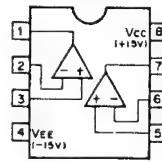
0; LOW LEVEL  
1; HIGH LEVEL  
X; DON'T CARE.

CONT. INPUTS	ON CHANNEL	
EN	A (X,Y,Z)	
0	0	0
0	1	1
1	X	OPEN

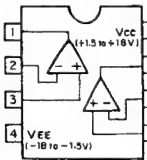
UPC358G2 (NEC) FLAT PACKAGE  
DUAL OPERATIONAL AMPLIFIERS  
- TOP VIEW -



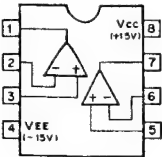
UPC4572G2 (NEC) FLAT PACKAGE  
OPERATIONAL AMPLIFIER (WIDE BAND, LOW NOISE)  
- TOP VIEW -



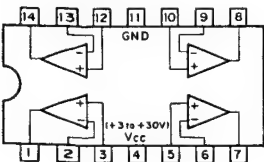
TL062CPS (TI) FLAT PACKAGE  
OPERATIONAL AMPLIFIER  
(JFET INPUT)  
- TOP VIEW -



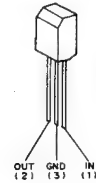
TL072CPS (TI) FLAT PACKAGE  
OPERATIONAL AMPLIFIER  
(LOW-NOISE, JFET-INPUT)  
- TOP VIEW -



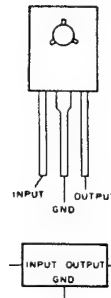
UPC324G2 (NEC) FLAT PACKAGE  
QUAD. OP. AMPLIFIER  
- TOP VIEW -



UPC78L05 (NEC) +5V  
POSITIVE VOLTAGE REGULATOR (100mA)



UPC78N05H (NEC) +5V  
POSITIVE VOLTAGE REGULATOR  
- FRONT VIEW -



# SECTION 13

## REPLACEABLE PART AND OPTIONAL FIXTURE

### 13-1. NOTES ON REPAIR PARTS

#### (1) Safely Related Components Warning

Components marked with  $\Delta$  on the schematic diagrams, exploded views and electrical repair parts list are critical to safe operation. Replace these components with Sony parts whose part numbers appear in this manual or in service bulletin and service manual supplements published by Sony.

#### (2) Standardization of Parts

Repair parts supplied from Sony Parts Center may not be always identical with the parts which actually in use due to "accommodating the improved parts and/or engineering changes" or "standardization of genuine parts".

This manual's exploded views and electrical parts list are indicating the part numbers of "the standardized genuine parts at present".

#### (3) Changes of Parts

Regarding engineering parts changes, refer to "Section 14 CHANGED PART"

#### (4) Stock of Parts

Parts marked with "o" SP (Supply Code) column of the repair parts list are not normally required for routine service work. Orders for parts marked with "o" will be processed, but allow for additional delivery time.

#### (5) Units for Capacitors, Inductors and Resistors

The following units may be assumed in schematic diagrams, electrical parts list and exploded views unless otherwise specified.

Capacitors :  $\mu\text{F}$   
 Inductors :  $\mu\text{H}$   
 Resistors :  $\Omega$

#### (6) Tension Spring

(x x T) after a tension spring is shown on the parts list in order to indicate the number of spring turns required for the use.

(Example) TENSION, SPRING (20 T) :  
 This spring must be cut at its 20th turn for actual use.

### 13-2. EXPLODED VIEW

• Exploded views are composed of the following blocks

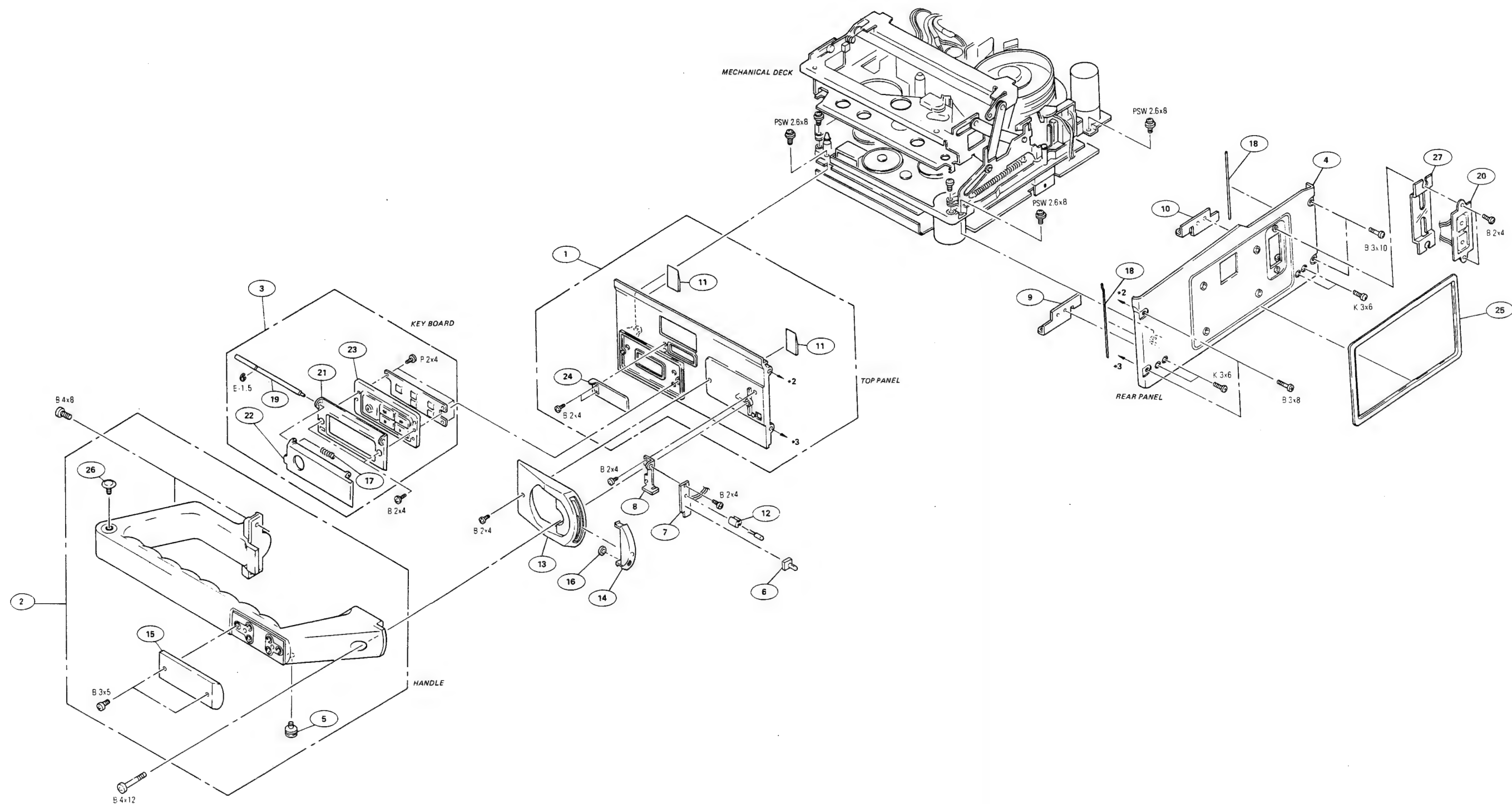
	Page
(1) Cabinet Block (1) .....	13-2
(2) Cabinet Block (2) .....	13-4
(3) Cassette-up Compartment .....	13-6
(4) Reel Drive Block (Supply Side) .....	13-8
(5) Reel Drive Block (Take-up Side) .....	13-10
(6) Tension Regulator Block .....	13-12
(7) Threading Ring .....	13-14
(8) Gear Block .....	13-16
(9) Drum .....	13-18
(10) Pinch Press Mechanism .....	13-20
(11) Reel Chassis (Back Side) .....	13-22
(12) Side Panel (1) .....	13-24
(13) Side Panel (2) .....	13-26
(14) Battery Case/Connector Box .....	13-28

**CABINET BLOCK (1)**

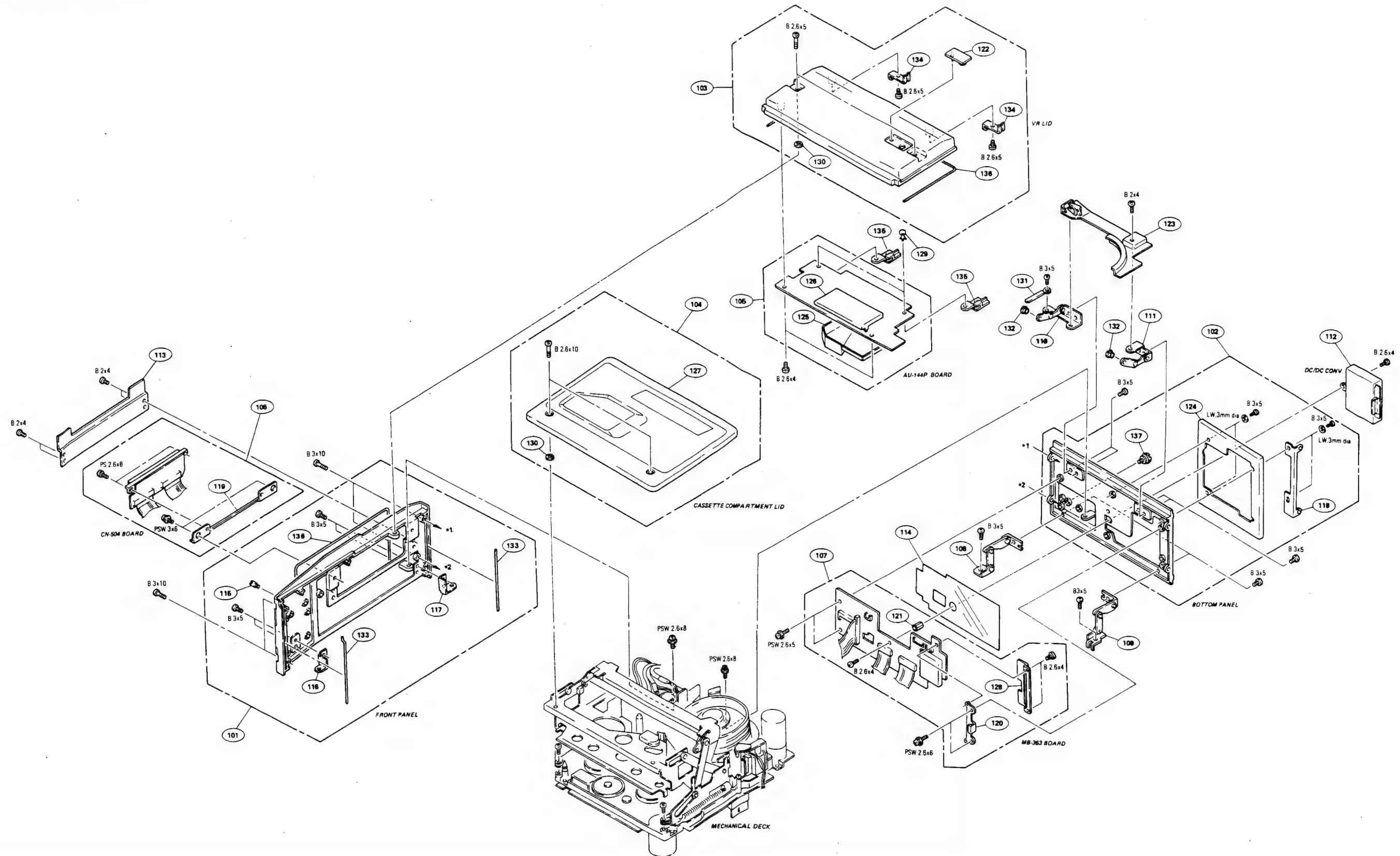
No.	Parts No.	SP	Description
1	A-6703-714-B	o	PANEL ASSY, TOP
2	A-6703-719-A	o	HANDLE ASSY
3	A-6731-177-A	s	KEY BOARD ASSY
4	X-3166-118-2	o	PANEL SUB ASSY, REAR
5	X-3744-307-1	s	SUSPENSION ASSY
6	1-570-608-11	s	SWITCH, TOGGLE
7	1-640-282-11	o	PRINTED CIRUIT BOARD, SW-457
8	3-171-650-01	o	BRACKET, TALLY
9	3-171-659-01	o	STOPPER (A), VO
10	3-171-660-01	o	STOPPER (B), VO
11	3-171-661-02	o	PLATE, SLIDE
12	3-171-679-01	o	HOLDER, LED (FOR S/N 10001 THRU 10100)
	3-670-095-00	o	HOLDER, LED (FOR S/N 10101 AND HIGHER)
13	3-171-749-01	o	BASE
14	3-171-750-01	s	COVER, TALLY
15	3-171-755-01	o	COVER, HANDLE
16	3-173-135-01	s	RING, DROP PROTECTION
17	3-673-281-00	o	SPRING, COMPRESSION
18	3-711-715-01	o	RUBBER, SHIELD
19	3-717-854-01	o	SHAFT, KEY BOARD COVER
20	3-718-028-01	o	HOLDER, TERMINAL
21	3-718-042-21	o	FRAME, KEY BOARD
22	3-718-043-23	o	COVER, KEY BOARD
23	3-718-044-01	s	COVER, KEY BOARD RUBBER
24	3-718-179-01	s	COVER (2), TOP
25	3-724-723-01	s	RUBBER (BATT), DROP PROTECTION
26	3-725-907-01	s	BUSHING, BLIND
27	3-729-009-04	o	INSULATOR (BATT)



Cabinet Block (1)



Cabinet Block (2)



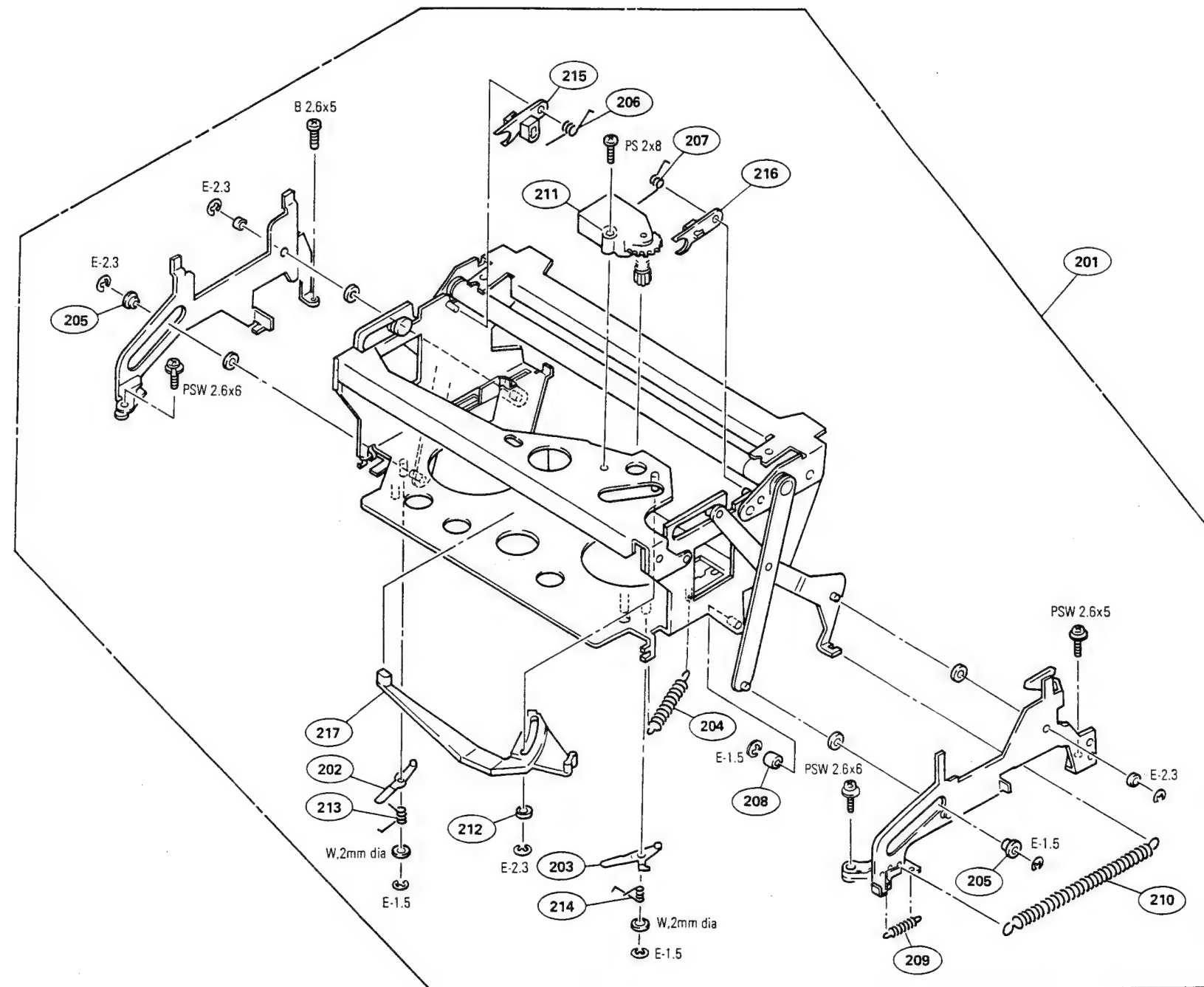
**CABINET BLOCK (2)**

No.	Parts No.	SP	Description
101	A-6703-712-B	o	PANEL ASSY, FRONT
102	A-6703-715-B	o	PANEL ASSY, BOTTOM
103	A-6703-718-C	o	LID ASSY, VR
104	A-6704-548-A	s	LID ASSY, CASSETTE COMPARTMENT
105	A-6713-471-A	o	MOUNTED CIRCUIT BOARD, AU-144P
106	A-6754-343-A	o	MOUNTED CIRCUIT BOARD, CN-504
107	A-6754-345-A	o	MOUNTED CIRCUIT BOARD, MB-363
108	X-3166-095-2	o	HINGE (L) ASSY, PLATE, SIDE
109	X-3166-096-2	o	HINGE (R) ASSY, PLATE, SIDE
110	X-3166-099-2	o	BASE (A) ASSY, HINGE
111	X-3166-100-2	o	BASE (B) ASSY, HINGE
112	1-466-600-11	s	CONVERTER UNIT, DC/DC
113	3-171-649-01	o	COVER, FRONT
114	3-171-651-01	o	SHEET, INSULATING, MB
115	3-171-656-01	o	PIN, INSERTING PROTECTION
116	3-171-657-01	o	STOPPER (A), PLATE, SIDE
117	3-171-658-01	o	STOPPER (B), PLATE, SIDE
118	3-171-662-01	o	STOPPER, CN COVER
119	3-171-674-01	o	BRACKET, FLOATING
120	3-171-676-01	o	BRACKET (B), MB
121	3-171-677-01	o	SUPPORT, HEXAGON
122	3-171-684-01	s	RUBBER (CASSETTE)
123	3-171-753-02	o	BRACKET (2), TAPE
124	3-171-754-01	o	COVER, CN
125	3-171-807-01	o	CASE (A), SHIELD, AU
126	3-171-808-01	o	CASE (B), SHIELD, AU (FOR S/N 10001 THRU 10500)
	X-3166-584-1	o	CASE (B) ASSY, SHIELD AU (FOR S/N 10501 AND HIGHER)
127	3-171-830-02	s	RUBBER, DROP PROTECTION
128	3-172-695-01	o	HOLDER, CN
129	3-531-576-11	s	RIVET
130	3-669-596-00	s	WASHER (2.3), STOPPER
131	3-701-822-00	o	HOLDER, WIRE
132	3-703-074-00	s	CAP 3, SHAFT
133	3-711-715-01	o	RUBBER, SHIELD
134	3-717-945-01	o	HINGE (E) (RIGHT)
135	3-717-995-01	o	RETAINER, AU
136	3-729-701-11	s	RUBBER (CARBON), CONDUCTIVE
137	3-744-355-01	o	SHAFT, GUIDE

# CASSETTE-UP COMPARTMENT

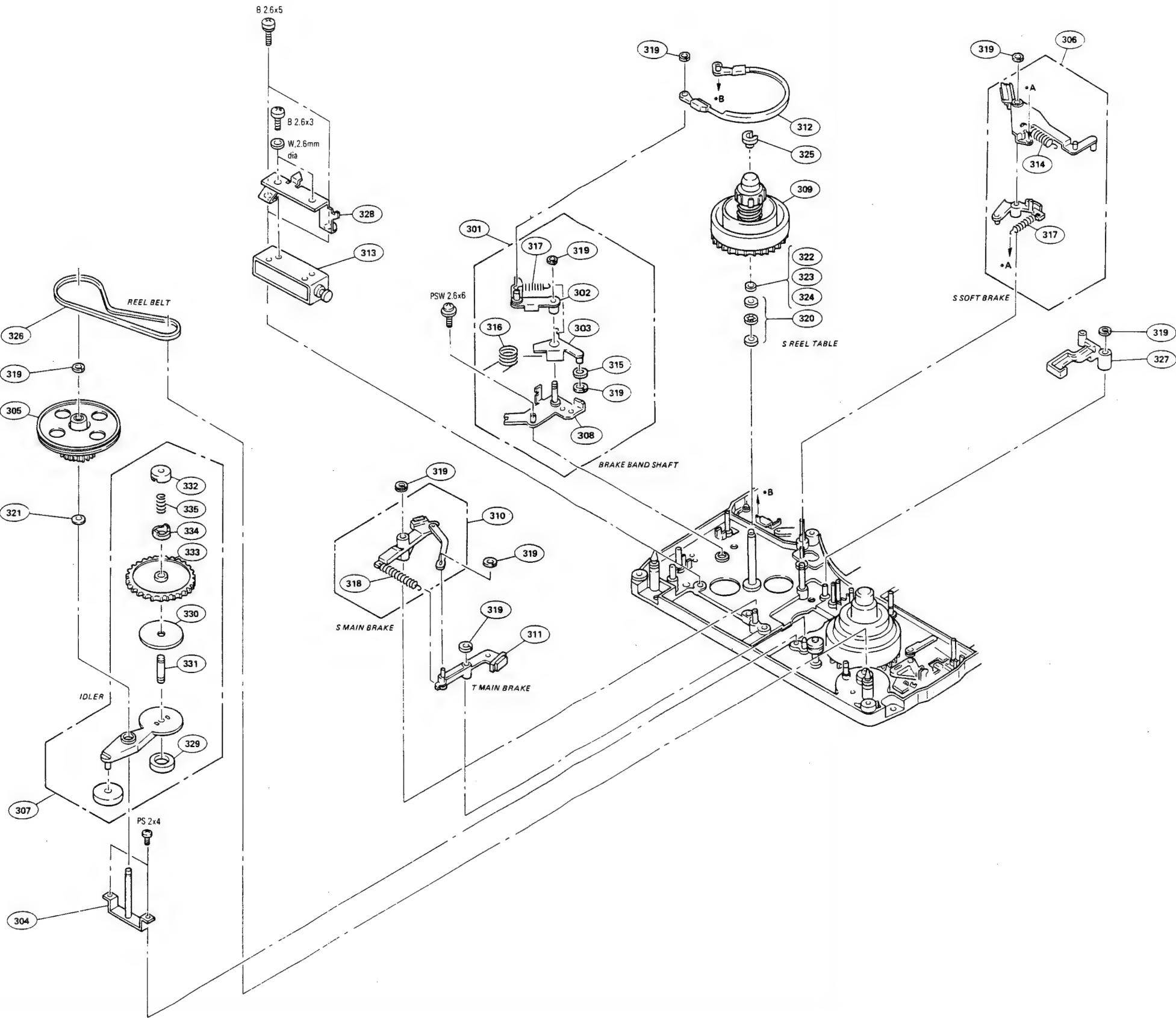
No.	Parts No.	SP	Description
201	A-6751-365-H	s	CASSETTE COMPARTMENT ASSY
202	X-3166-197-2	o	STOPPER (L) ASSY
203	X-3166-198-2	o	STOPPER (R) ASSY
204	3-172-250-01	s	SPRING, TENSION
205	3-172-265-02	s	ROLLER, ARM
206	3-172-266-01	o	SPRING (L), RETAINER
207	3-172-267-01	o	SPRING (R), RETAINER
208	3-676-221-00	s	ROLLER, LOCK
209	3-679-164-00	s	SPRING, TENSION
210	3-681-527-00	s	SPRING, TENSION
211	3-681-528-00	o	DAMPER
212	3-701-439-21	s	WASHER, POLY 3MM DIA. 0.5T
213	3-717-803-02	o	SPRING (LEFT)
214	3-717-804-01	o	SPRING (RIGHT)
215	3-717-805-01	o	RETAINER (LEFT), CASSETTE
216	3-718-049-01	o	RETAINER (RIGHT), CASSETTE
217	3-718-050-01	s	GEAR

Cassette-up Compartment





Reel Drive Block (S SIDE)



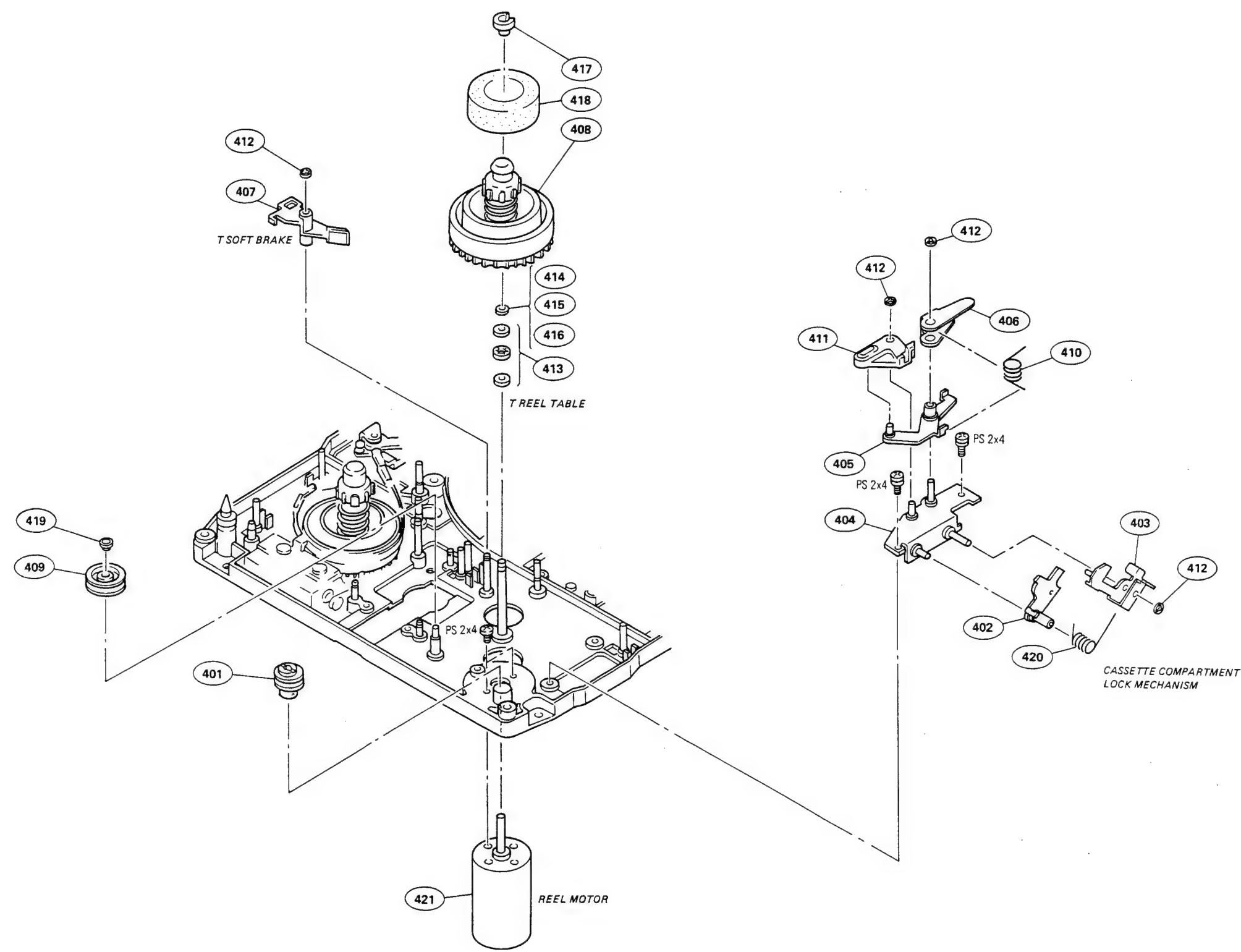
# REEL DRIVE BLOCK (S SIDE)

No.	Parts No.	SP	Description
301	A-6747-275-2	o	SHAFT ASSY, BAND
302	X-3166-105-2	o	ARM (A) ASSY, T
303	X-3166-106-1	o	ARM (B) ASSY, T
304	X-3166-110-2	s	SHAFT ASSY, RELAY PULLEY
305	X-3166-111-1	s	PULLEY ASSY, RELAY
306	X-3166-112-3	s	BRAKE ASSY, S SOFT
307	X-3166-116-1	s	IDLER SUB ASSY
308	X-3717-720-2	o	BASE ASSY, BAND SHAFT
309	X-3717-733-3	s	TABLE ASSY, REEL
310	X-3717-734-5	s	BRAKE ASSY, MAIN, S (FOR S/N 10001 THRU 10800)
	X-3166-577-1	s	BRAKE ASSY, MAIN, S (FOR S/N 10801 AND HIGHER)
311	X-3717-735-4	s	BRAKE ASSY, MAIN, T
312	X-3717-736-1	s	BAND ASSY, T
313	1-454-382-31	s	SOLENOID, PLUNGER
314	3-140-263-XX	s	SPRING, TENSION (23T) (FOR S/N 10001 THRU 12868)
	2-357-413-01	s	SPRING, TENSION (23T) (FOR S/N 12869 AND HIGHER)
315	3-171-716-01	s	ROLLER, T
316	3-171-717-01	s	SPRING, BAND RETURN
317	3-547-659-00	s	SPRING, TENSION
318	3-555-026-00	s	SPRING, TENSION (FOR S/N 10001 THRU 10800)
	3-646-302-00	s	SPRING, COMPRESSION (FOR S/N 10801 AND HIGHER)
319	3-669-465-00	s	WASHER (1.5), STOPPER
320	3-676-322-00	s	BEARING, THRUST
321	3-701-438-21	s	WASHER, POLY, 2.5 MM DIA. 0.5T
322	3-701-439-01	s	WASHER, POLY, 3 MM DIA. 0.13T
323	3-701-439-11	s	WASHER, POLY, 3 MM DIA. 0.25T
324	3-701-439-21	s	WASHER, POLY, 3 MM DIA. 0.5T
325	3-703-074-00	s	CAP 3, SHAFT
326	3-717-908-01	s	BELT, REEL
327	3-717-912-01	s	ARM, PROHIBITION
328	3-717-952-01	o	BRACKET, SOLENOID
329	3-717-983-01	o	STOPPER, IDLER
330	3-717-985-01	o	LINING, LIMITER
331	3-717-986-01	o	SHAFT, ARM, DRIVING
332	3-717-987-01	o	RETAINER (1), SPRING
333	3-717-988-01	o	GEAR, IDLER
334	3-717-992-01	o	STOPPER
335	4-866-079-01	s	SPRING, COMPRESSION

**REEL DRIVE BLOCK (T SIDE)**

No.	Parts No.	SP	Description
401	A-6759-416-A	s	PULLEY (1) (PS) ASSY
402	X-3166-097-4	o	STOPPER ASSY
403	X-3166-101-2	s	LEVER ASSY, LOCK
404	X-3166-102-2	o	BASE ASSY, EJECT
405	X-3166-103-2	o	LINK (1) ASSY
406	X-3166-104-1	o	PLATE ASSY, LIMITER
407	X-3166-113-1	s	BRAKE ASSY, T SOFT
408	X-3717-733-3	s	TABLE ASSY, REEL
409	X-3717-770-1	o	PULLEY (2) ASSY
410	3-171-695-01	s	SPRING, LIMITER
411	3-171-809-01	o	LINK (2)
412	3-669-465-00	s	WASHER (1.5), STOPPER
413	3-676-322-00	s	BEARING, THRUST
414	3-701-439-01	s	WASHER, POLY 3 MM DIA. 0.13T
415	3-701-439-11	s	WASHER, POLY 3 MM DIA. 0.25T
416	3-701-439-21	s	WASHER, POLY 3 MM DIA. 0.5T
417	3-703-074-00	s	CAP 3, SHAFT
418	3-717-903-01	s	CUSHION, REEL TABLE
419	3-718-127-01	o	RETAINER, BEARING
420	3-723-052-01	s	SPRING (A), TORSION
421	A-8262-736-A	s	MOTOR ASSY, REEL

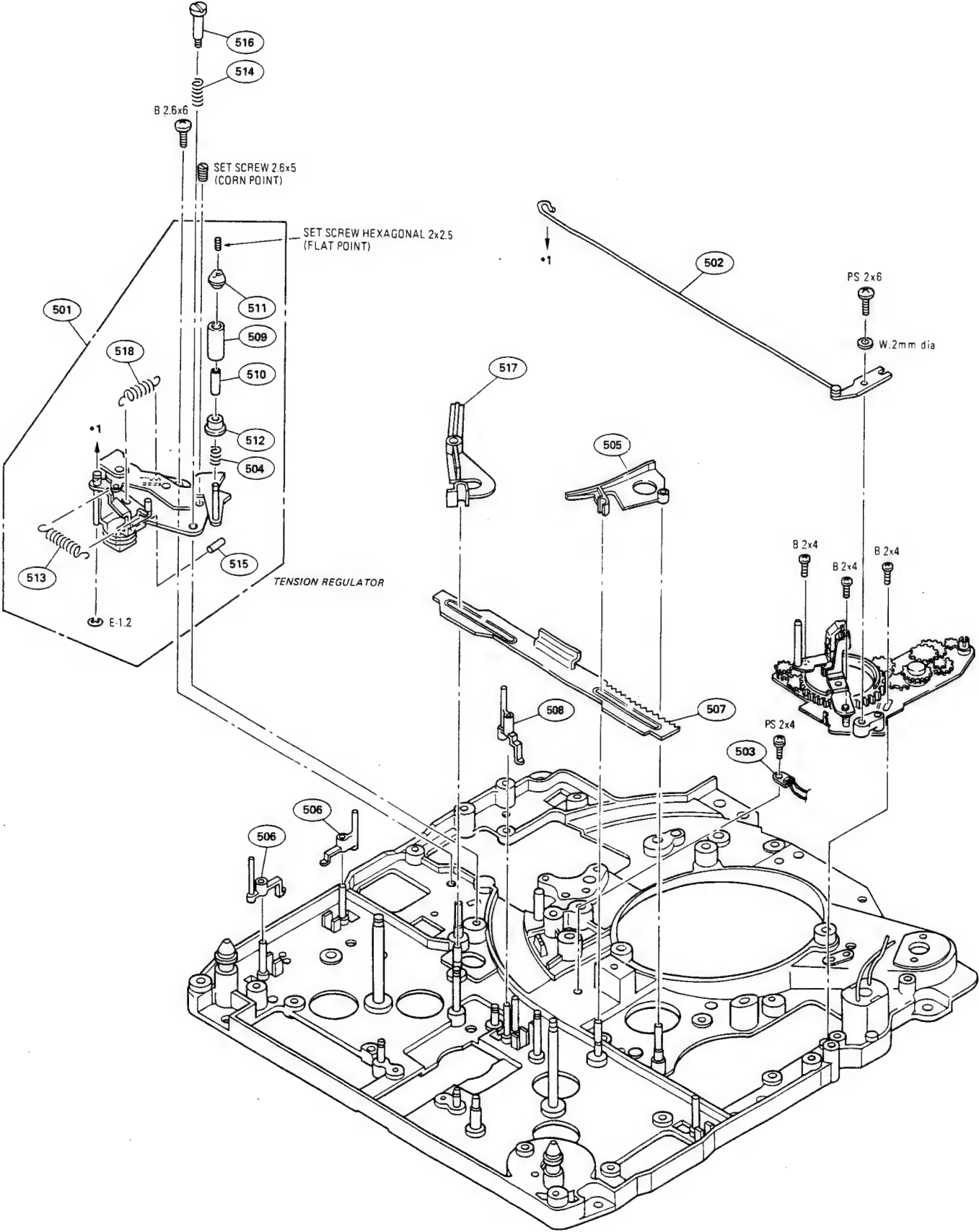
Reel Drive Block (T SIDE)



TENSION REGULATOR BLOCK

TENSION REGULATOR BLOCK

Tension Regulator Block





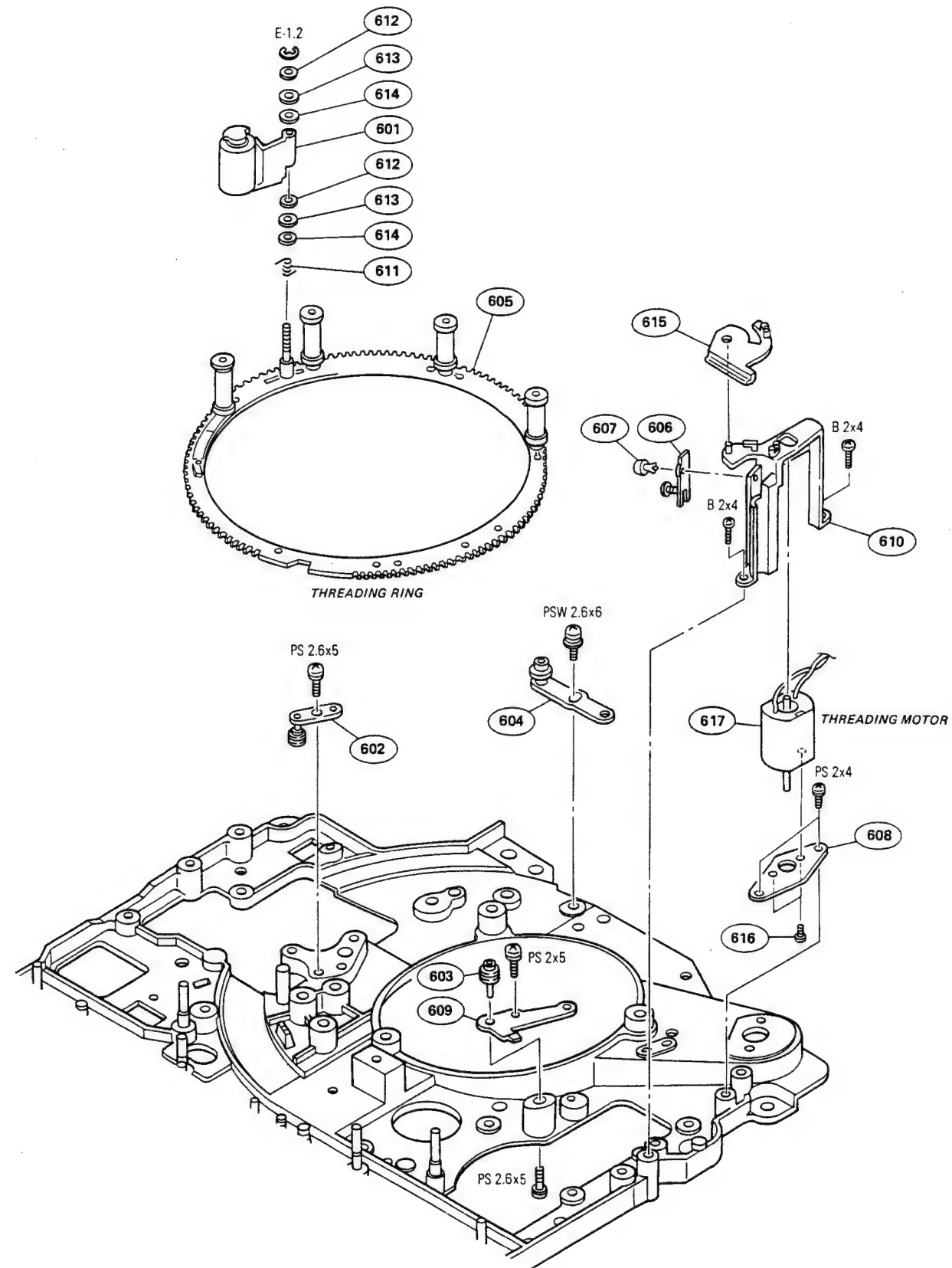
**TENSION REGULATOR BLOCK**

No.	Parts No.	SP	Description
501	A-6742-075-A	s	TENSION REGULATOR ASSY (FOR S/N 10501 THRU 11220)
	A-6742-062-A	s	TENSION REGULATOR ASSY (FOR S/N 11221 AND HIGHER)
502	X-3717-737-1	s	ROD ASSY, PULL
503	1-806-682-81	s	SENSOR, DEW CONDENSATION
504	2-618-901-00	s	SPRING
505	3-171-653-01	o	GUIDE, PINCH ROLLER
506	3-171-751-01	s	ACTUATOR
507	3-171-752-01	o	SLIDER
508	3-172-366-02	s	ACTUATOR (M)
509	3-172-877-01	s	ROLLER, T.R (FOR S/N 10501 THRU 11220)
	X-3675-851-0	s	ROLLER ASSY, TR (FOR S/N 11221 AND HIGHER)
510	3-172-878-01	s	SLEEVE (T)
511	3-172-879-01	s	FLANGE (T), UPPER (FOR S/N 10501 THRU 11220)
	3-677-752-01	s	NUT, ADJUSTMENT, T (FOR S/N 11221 AND HIGHER)
512	3-172-880-01	s	FLANGE (T), LOWER (FOR S/N 10501 THRU 11220)
	3-717-859-01	s	FLANGE, TR (LOWER) (FOR S/N 11221 AND HIGHER)
513	3-674-402-00	s	SPRING, TENSION
514	3-684-290-01	s	SPRING, COMPRESSION
515	3-703-357-01	s	PIN, PARALLEL (DIA, 1.6x4)
516	3-717-905-01	s	SCREW, TENSION REGULATOR BASE
517	3-717-918-01	s	STOPPER, TENSION REGULATOR
518	4-875-562-00	s	SPRING, TENSION

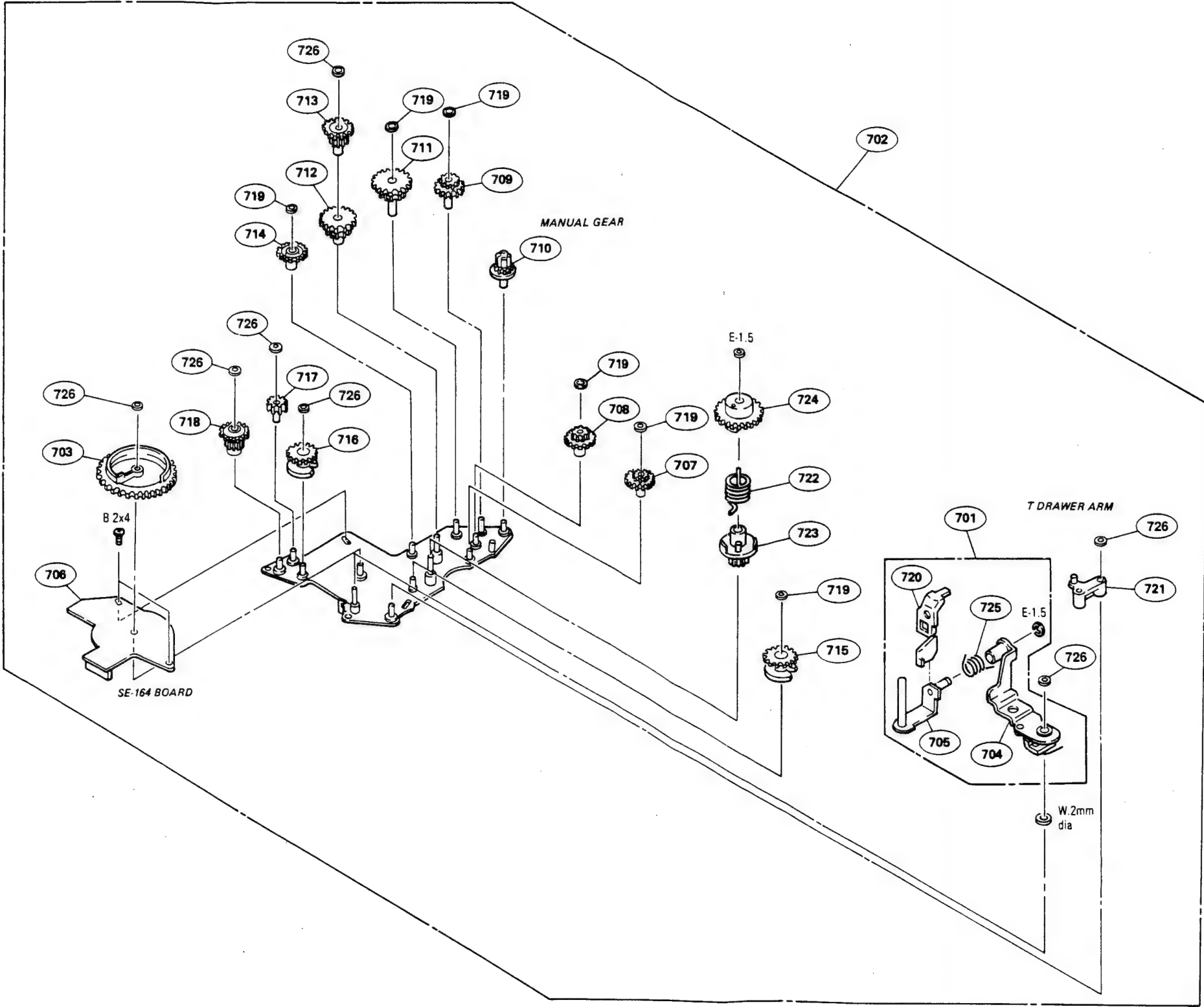
**THREADING RING**

No.	Parts No.	SP	Description
601	X-3166-107-2	s	ARM ASSY, PINCH
602	X-3717-727-1	s	ROLLER (A) ASSY, RING
603	X-3717-728-1	s	ROLLER (B) ASSY, RING
604	X-3717-729-1	s	PLATE ASSY, ADJUSTMENT
605	X-3717-743-1	s	RING SUB ASSY, THREADING
606	1-543-316-21	s	HEAD, SENSING (SMALL TYPE)
607	2-279-715-01	s	RIVET, NYLON
608	3-171-655-01	o	BRACKET, MOTOR
609	3-171-710-02	o	STOPPER, RING
610	3-171-812-01	o	BASE, SENSOR, TAPE (TOP)
611	3-676-304-00	s	SPRING
612	3-701-436-01	s	WASHER, POLY, 1.6 MM DIA. 0.13T
613	3-701-436-11	s	WASHER, POLY, 1.6 MM DIA. 0.25T
614	3-701-436-21	s	WASHER, POLY, 1.6 MM DIA. 0.5T
615	3-718-024-01	s	PLATE, CORRECTION, SLANT GUIDE
616	7-627-552-38	s	SCREW, PRECISION +P 1.7×3
617	8-835-462-01	s	MOTOR, DC DN20-Q7Z2B

Threading Ring



Gear Block



**GEAR BLOCK**

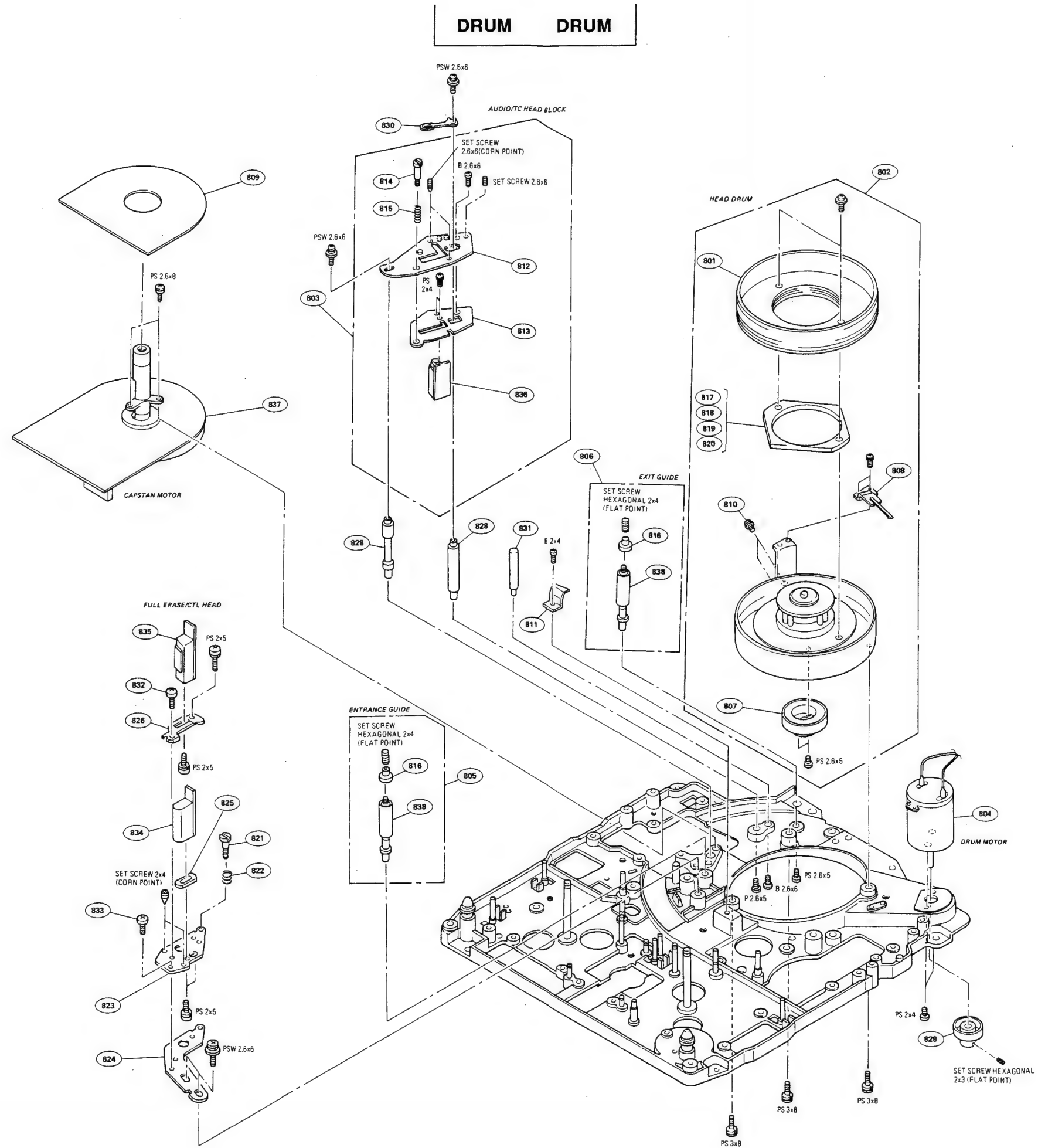
No.	Parts No.	SP	Description
701	A-6746-056-A	s	GUIDE ASSY, T DRAWER
702	A-6750-297-A	s	GEAR BLOCK ASSY
703	X-3166-108-1	s	ROTOR ASSY
704	X-3717-702-2	o	ARM ASSY, T DRAWER
705	X-3717-703-2	s	LINK ASSY, SLANT
706	1-640-284-11	o	PRINTED CIRCUIT BOARD, SE-164
707	3-171-724-01	o	GEAR (3-1)
708	3-171-725-01	o	GEAR (3-2)
709	3-171-726-01	o	GEAR (35-1)
710	3-171-727-01	o	GEAR, MANUAL
711	3-171-728-01	o	GEAR (5-1)
712	3-171-729-01	o	GEAR (5-2)
713	3-171-730-01	o	GEAR, RING
714	3-171-731-01	o	GEAR (5-3)
715	3-171-732-01	o	GEAR (1)
716	3-171-733-01	o	GEAR (2)
717	3-171-734-01	o	GEAR, S
718	3-171-735-01	o	PINION
719	3-559-408-11	s	WASHER, POLY 1.2 MM DIA
720	3-717-725-02	o	TRAVELLER, TAPE
721	3-717-728-03	s	ARM, TD
722	3-717-729-01	o	SPRING
723	3-717-736-01	o	LIMITER (LOWER)
724	3-717-740-01	o	LIMITER (UPPER)
725	3-718-181-01	s	SPRING
726	3-669-465-00	s	WASHER (1.5), STOPPER



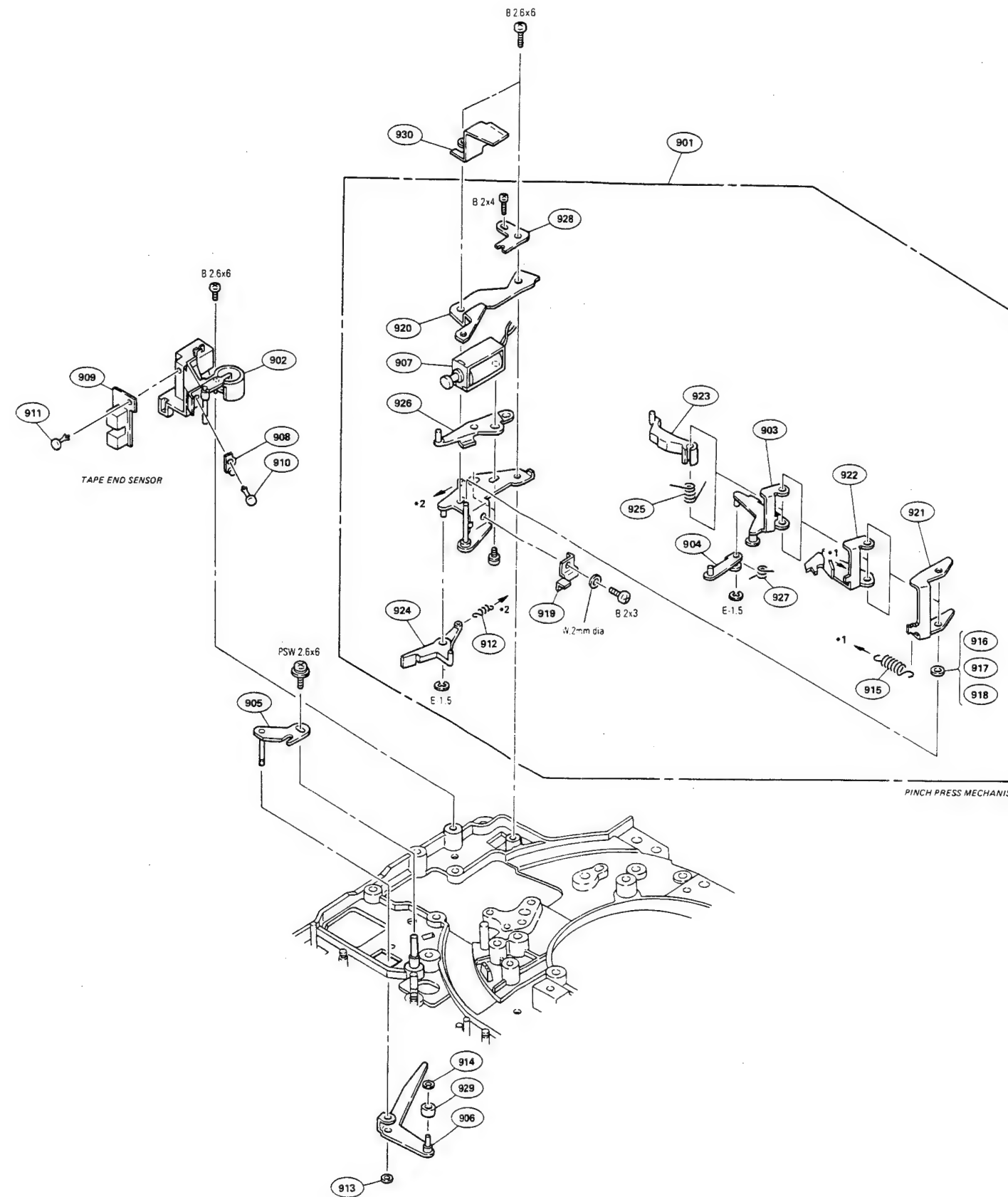
**DRUM**

No.	Parts No.	SP	Description
801	A-6762-455-A	s	UPPER DRUM ASSY (DBR-23-R)
802	A-6050-833-A	s	DRUM ASSY (DBH-23A-R)
803	A-6736-099-A	o	HEAD ASSY, AUDIO
804	A-6737-208-A	s	MOTOR ASSY, DRUM
805	A-6746-023-E	s	GUIDE ASSY, ENTRANCE
806	A-6746-024-E	s	GUIDE ASSY, EXIT
807	X-3165-802-1	s	PULLEY ASSY
808	X-3166-357-1	s	GROUND ASSY, SHAFT
809	3-170-801-01	s	PLATE, SHIELD, C
810	3-171-587-01	s	+PSW 2.6×6
811	3-171-654-01	o	BRACKET (1), TAPE
812	3-171-714-01	o	BRACKET (A), A HEAD
813	3-171-715-01	o	BRACKET (B), A HEAD
814	3-643-451-00	s	SCREW, AZIMUTH ADJUSTMENT
815	3-653-350-00	s	SPRING, COMPRESSION
816	3-676-137-02	s	FLANGE, TAPE ROLLER
817	3-717-120-01	s	SPACER, FLANGE
818	3-717-120-11	s	SPACER, FLANGE
819	3-717-120-21	s	SPACER, FLANGE
820	3-717-120-31	s	SPACER, FLANGE
821	3-717-792-01	s	STOPPER, HEAD
822	3-717-794-01	s	SPRING, COMPRESSION
823	3-717-795-01	o	BRACKET, CTL HEAD
824	3-717-796-01	o	DECK, CTL HEAD
825	3-717-797-01	o	SPACER, CTL HEAD
826	3-717-798-03	o	BRACKET, FE HEAD
827	3-717-874-01	o	SUPPORT (A), AU HEAD
828	3-717-875-01	o	SUPPORT (B), AU HEAD
829	3-717-919-01	o	PULLEY, MOTOR, D
830	3-717-920-01	o	ADJUSTOR, Y
831	3-717-923-01	s	GUIDE, DUMMY
832	3-729-076-11	s	SCREW (+B) (2×4)
833	3-732-012-11	s	SCREW (M2×5)
834	8-825-554-83	s	HEAD, CTL PS244-21B
835	8-825-770-72	s	HEAD, FE EF291-21
836	8-825-776-11	s	HEAD, AU PS244-2103D
837	8-835-437-01	s	MOTOR, DC SCV-0201A
838	3-676-138-01	s	ROLLER, TAPE

Drum



Pinch Press Mechanism



**PINCH PRESS MECHANISM**

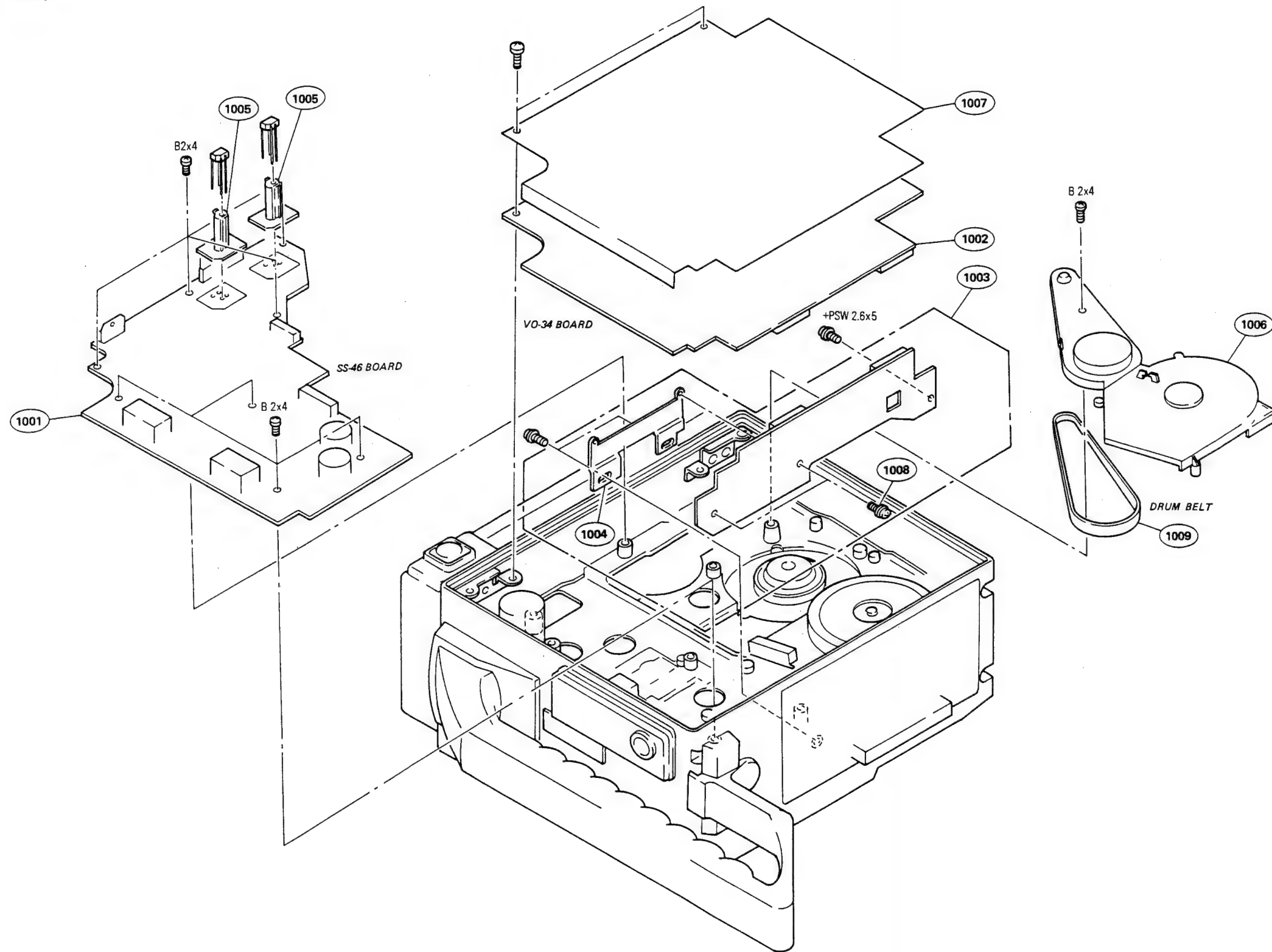
No.	Parts No.	SP	Description
901	A-6747-276-A	s	PRESS ASSY, PINCH
902	X-3166-109-1	o	SENSOR SUB ASSY
903	X-3717-711-1	o	LEVER (B) ASSY, PINCH PRESS
904	X-3717-712-1	o	ARM ASSY, JOINT
905	X-3717-725-1	o	BASE ASSY, PINCH LEVER
906	X-3717-726-1	o	LEVER (D) ASSY, PINCH PRESS
907	1-454-445-21	s	SOLENOID, PLUNGER
908	1-543-316-21	s	HEAD, SENSING (SMALL TYPE)
909	1-622-630-11	o	PRINTED CIRCUIT BOARD, SE-60
910	2-279-715-01	s	RIVET, NYLON
911	3-531-576-51	o	RIVET
912	3-547-664-00	s	SPRING, TENSION
913	3-669-465-00	s	WASHER (1.5), STOPPER
914	3-676-387-00	s	POLY-SLIDER (DIA. 1.6)
915	3-678-774-00	s	SPRING, TENSION
916	3-701-437-01	s	WASHER, POLY 2MM DIA. 0.13T
917	3-701-437-11	s	WASHER, POLY 2MM DIA. 0.25T
918	3-701-437-21	s	WASHER, POLY 2MM DIA. 0.5T
919	3-717-772-01	o	STOPPER
920	3-717-773-01	o	BASE (UPPER), PINCH
921	3-717-774-01	o	LEVER (A), PINCH PRESS
922	3-717-775-01	o	LEVER (C), PINCH PRESS
923	3-717-776-01	o	LEVER (A), RELEASE
924	3-717-777-01	o	LEVER (B), RELEASE
925	3-717-778-01	o	SPRING
926	3-717-779-02	o	SPACER, SOLENOID
927	3-717-780-01	o	SPRING
928	3-717-781-01	o	PLATE, ADJUSTMENT
929	3-717-869-01	s	ROLLER, PINCH
930	3-718-170-01	o	RETAINER, PINCH

**REEL CHASSIS (BACK SIDE)**

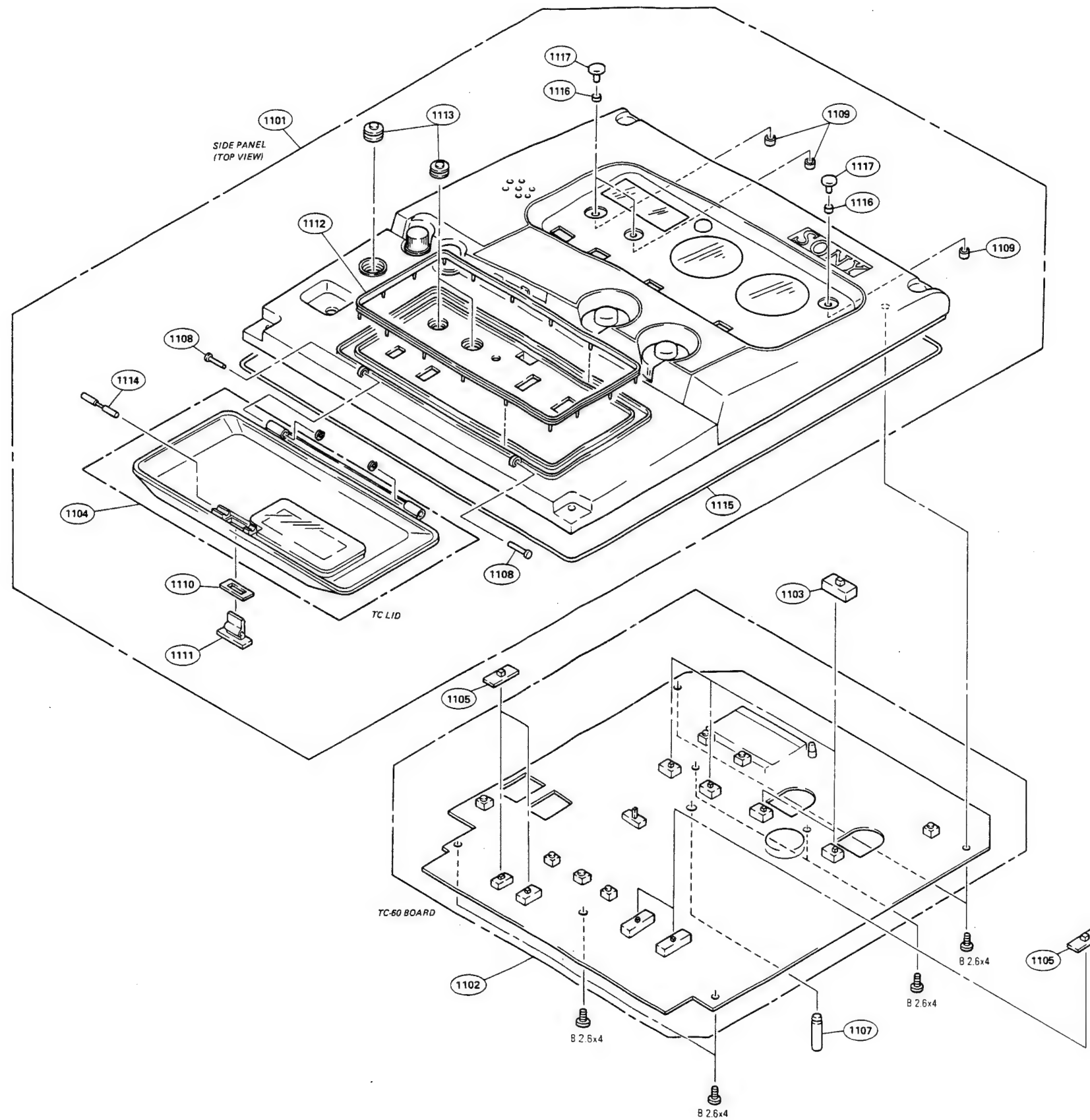
No.	Parts No.	SP	Description
1001	A-6715-457-A	o	MOUNTED CIRCUIT BOARD, SS-46P
1002	A-6727-373-A	o	MOUNTED CIRCUIT BOARD, VO-34P
1003	A-6754-344-A	o	MOUNTED CIRCUIT BOARD, MB-362
1004	3-171-675-01	o	BRACKET (A), MB
1005	3-171-681-01	o	HOLDER, GP 2S09
1006	3-171-817-02	o	GUARD, D.C
1007	3-173-136-05	o	PLATE, SHIELD, VO
1008	3-703-502-41	s	SCREW
1009	3-717-910-01	s	BELT, DRUM



### Reel Chassis (BACK SIDE)



Side Panel (1)



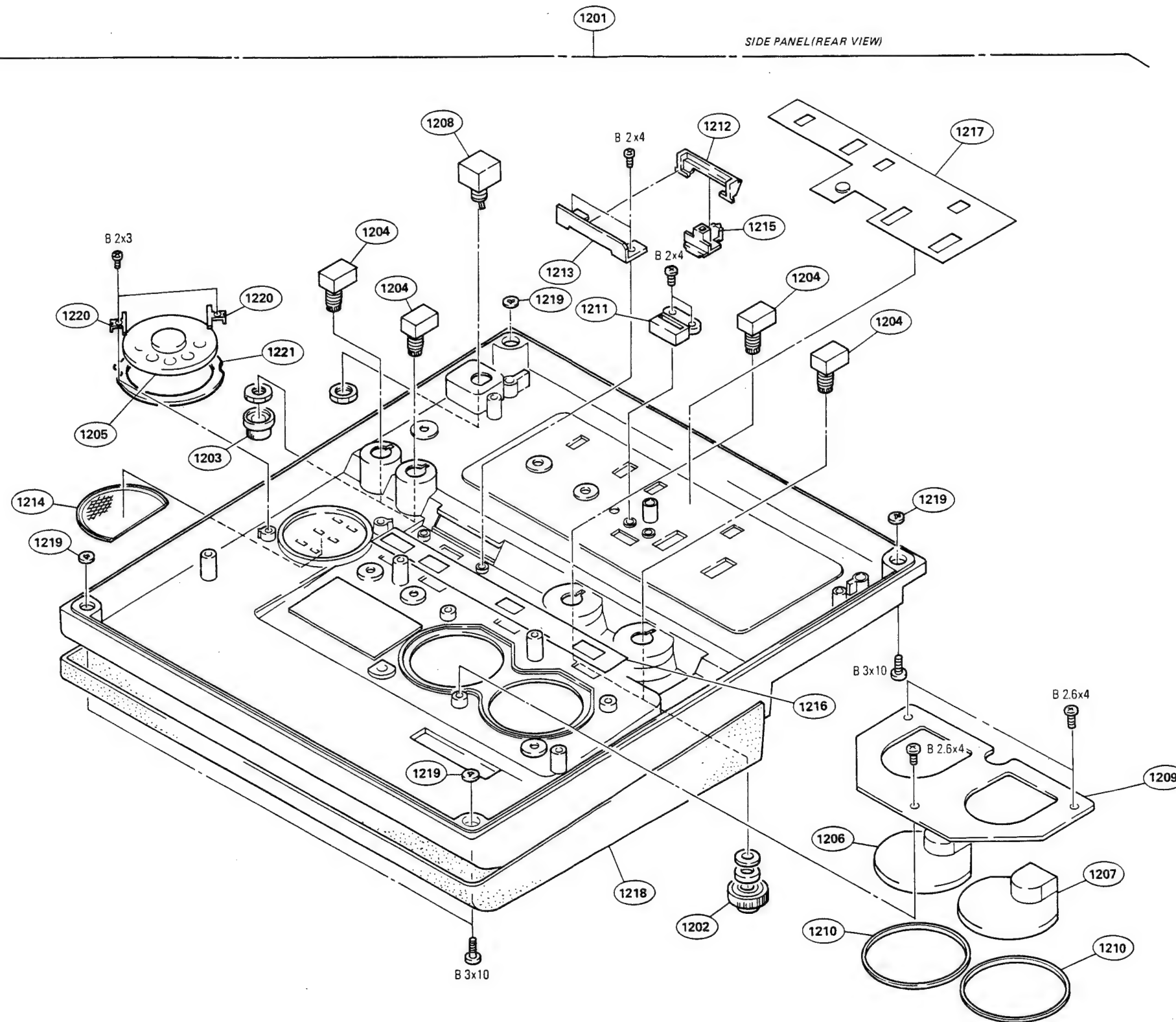
**SIDE PANEL (1)**

No.	Parts No.	SP	Description
1101	A-6703-722-B	o	PANEL ASSY (P), SIDE
1102	A-6713-470-A	o	MOUNTED CIRCUIT BOARD, TC-60P
1103	X-3166-098-1	s	KNOB ASSY, SW
1104	X-3166-114-1	o	LID SUB ASSY, TC
1105	X-3722-416-1	s	KNOB (A) (ORANGE) ASSY, SW
1107	3-171-652-01	o	FOOT, SS
1108	3-171-666-01	o	SHAFT, LID, TC
1109	3-171-669-01	o	RETAINER, SW, PUSH
1110	3-171-671-03	s	RUBBER, LEVER, TC
1111	3-171-672-01	s	LEVER, TC
1112	3-171-757-01	s	RUBBER, TC DROP PROTECTION
1113	3-676-244-00	s	COVER, SWITCH
1114	3-703-357-06	o	PIN, PARALLEL (DIA, 1.6×14)
1115	3-711-715-01	o	RUBBER, SHIELD
1116	3-724-758-02	s	RUBBER (PUSH), DROP PROTECTION
1117	3-724-759-03	s	PUSH (SW)

**SIDE PANEL (2)**

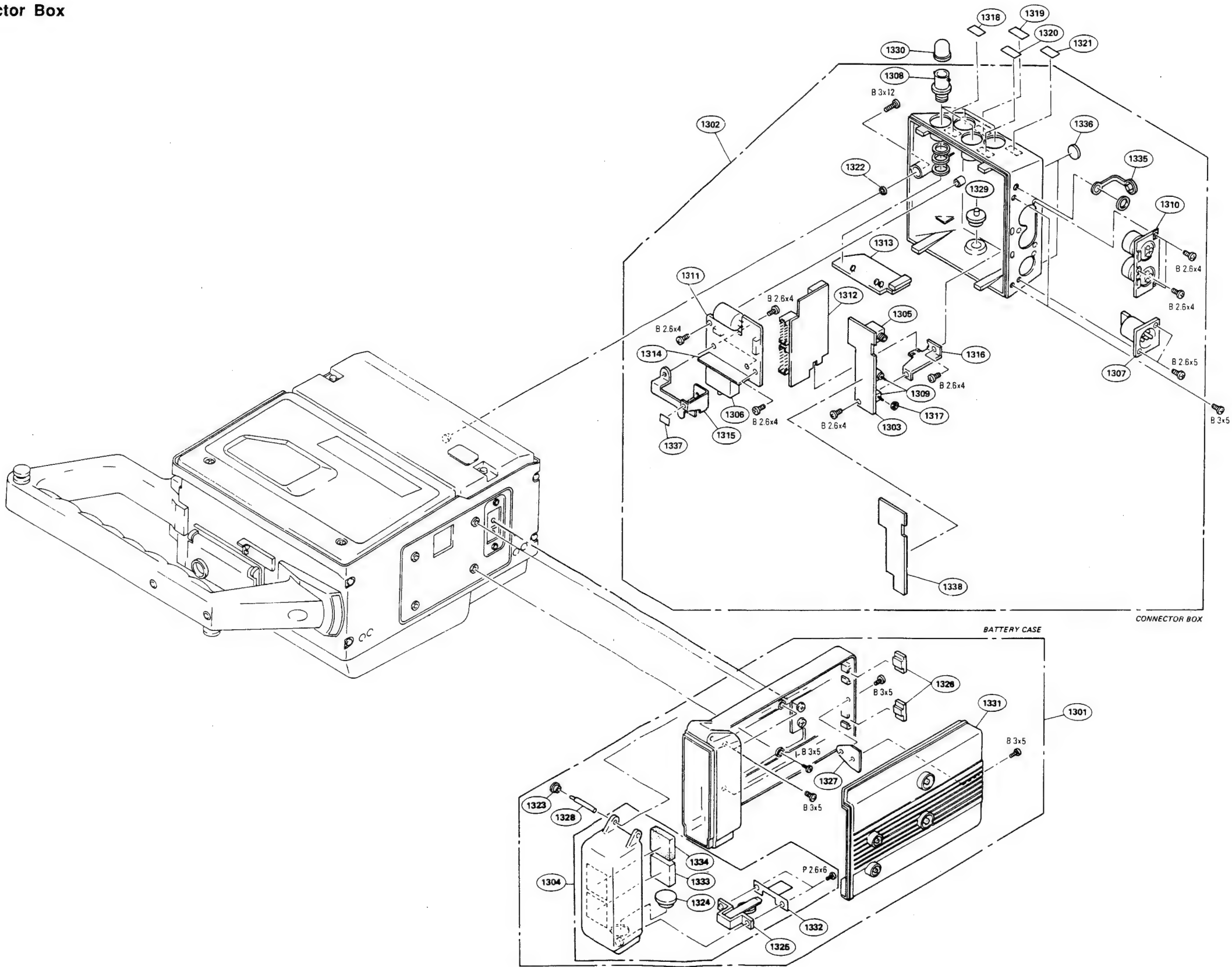
No.	Parts No.	SP	Description
1201	A-6703-722-B	o	PANEL ASSY (P), SIDE
1202	X-3166-093-1	s	KNOB (A) ASSY, VR
1203	X-3166-094-1	s	KNOB (B) ASSY, VR
			(FOR S/N 10001 THRU 10500)
	3-174-288-01	s	KNOB (C), VR
			(FOR S/N 10501 AND HIGHER)
1204	1-237-790-11	s	RES, VAR, CARBON 10K
1205	1-503-293-00	s	SPEAKER
1206	1-520-495-11	s	METER, LEVEL
1207	1-520-495-21	s	METER, LEVEL
1208	1-553-448-00	s	SWITCH, TOGGLE
1209	3-171-663-01	o	BRACKET, METER
1210	3-171-664-01	s	SHEET, METER DROP PROTECTION
1211	3-171-665-02	o	STOPPER, LID, TC
1212	3-171-667-01	o	RETAINER, KNOB
1213	3-171-668-01	o	STOPPER, P KNOB
1214	3-171-670-01	s	SHEET, DROP PROTECTION
1215	3-171-756-01	s	KNOB, POSITION
1216	3-171-800-01	s	SHEET (A), DROP PROTECTION
1217	3-171-821-01	s	SHEET (B), DROP PROTECTION
1218	3-171-827-01	o	PAD SIDE
1219	3-669-596-00	s	WASHER (2.3), STOPPER
1220	3-724-726-01	o	HOLDER, SPEAKER
1221	3-176-190-01	s	CUSHION (SPEAKER)
			(FOR S/N 11221 AND HIGHER)

Side Panel (2)





Battery Case / Connector Box



# BATTERY CASE/CONNECTOR BOX

No.	Parts No.	SP	Description
1301	A-6703-651-C	s	CASE ASSY, BATTERY
1302	A-6732-406-A	s	BOX ASSY, CONNECTOR
1303	A-6754-347-A	o	MOUNTED CIRCUIT BOARD, HP-50
1304	X-3717-701-3	o	COVER ASSY, TOP, BATTERY
1305	1-507-980-41	s	JACK
1306	Δ 1-532-525-00	s	BREAKER, CIRCUIT
1307	1-560-999-41	s	CONNECTOR (WITH SW)
1308	1-562-382-31	s	CONNECTOR, BNC
1309	1-570-610-11	s	SWITCH TOGGLE
1310	1-573-618-11	s	CONNECTOR (ROUND TYPE)
1311	1-640-275-11	o	PRINTED CIRCUIT BOARD, CN-505
1312	1-640-276-12	o	PRINTED CIRCUIT BOARD, CN-560
1313	1-640-277-11	o	PRINTED CIRCUIT BOARD, IO-61
1314	1-640-279-11	o	PRINTED CIRCUIT BOARD, SW-474
1315	3-171-682-01	o	BRACKET, DC CONVERTER
1316	3-171-683-01	o	BRACKET, HP-50
1317	3-173-135-01	s	RING, DROP PROTECTION
1318	3-173-207-01	o	LABEL (1), CN BOX
1319	3-173-208-01	o	LABEL (2), CN BOX
1320	3-173-209-01	o	LABEL (3), CN BOX
1321	3-173-210-01	o	LABEL (4), CN BOX
1322	3-669-596-00	s	WASHER (2.3), STOPPER
1323	3-703-075-00	s	CAP 2, SHAFT
1324	3-717-702-01	s	PUSH BUTTON
1325	3-717-703-03	s	HOOK
1326	3-717-707-02	o	CUSHION (2)
1327	3-717-708-01	o	RETAINER, CASE
1328	3-717-709-01	o	SHAFT, LID
1329	3-717-821-01	s	CAP, BREAKER
1330	3-717-823-01	s	COVER, BNC
1331	3-718-040-01	o	COVER (1), BATTERY CASE
1332	3-718-172-01	o	RETAINER, HOOK
1333	3-729-720-01	o	CUSHION (LEFT)
1334	3-729-721-01	o	CUSHION (RIGHT)
1335	3-849-405-00	s	COVER, EARPHONE JACK
1336	4-872-529-00	o	FOOT, RUBBER
1337	9-911-838-XX	s	SHEET
1338	3-173-933-01	s	SHEET (HP-50), INSULATING

### 13-3. ELECTRICAL PARTS LIST (1993. JAN.)

AU-144P BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6713-471-A	o MOUNTED CIRCUIT BOARD, AU-144P
1pc	3-171-807-01	o CASE (A), SHIELD, AU
1pc	3-171-808-01	o CASE (B), SHIELD, AU
C1	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V
C2	1-135-091-00	s TANTALUM, CHIP 1uF 10% 16V
C5	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C7	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C8	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C12	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C14	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C17	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C18	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C19	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C20	1-162-964-11	s CERAMIC, CHIP 0.001uF 10% 50V
C30	1-164-473-11	s CERAMIC, CHIP 820PF 5% 50V
C31	1-164-473-11	s CERAMIC, CHIP 820PF 5% 50V
C32	1-162-959-11	s CERAMIC, CHIP 330PF 5% 50V
C34	1-164-369-11	s CERAMIC, CHIP 330PF 5% 500V
C50	1-162-968-11	s CERAMIC, CHIP 0.0047uF 10% 50V
C51	1-162-968-11	s CERAMIC, CHIP 0.0047uF 10% 50V
C52	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C55	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C57	1-136-562-11	s FILM 0.0082uF 5% 630V
C58	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C59	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V
C60	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C102	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C104	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C107	1-135-091-00	s TANTALUM, CHIP 1uF 10% 16V
C111	1-162-915-11	s CERAMIC, CHIP 10PF 50V
C112	1-162-967-11	s CERAMIC, CHIP 0.0033uF 10% 50V
C113	1-162-965-11	s CERAMIC, CHIP 0.0015uF 10% 50V
C114	1-164-670-11	s CERAMIC, CHIP 1200PF 5% 16V
C130	1-164-489-11	s CERAMIC, CHIP 0.22uF 10% 16V
C134	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C135	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C136	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V
C138	1-164-369-11	s CERAMIC, CHIP 330PF 5% 500V
C140	1-164-489-11	s CERAMIC, CHIP 0.22uF 10% 16V
C142	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C143	1-162-587-11	s CERAMIC, CHIP 0.039uF 10% 25V
C202	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C204	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C207	1-135-091-00	s TANTALUM, CHIP 1uF 10% 16V
C211	1-162-915-11	s CERAMIC, CHIP 10PF 50V
C212	1-162-967-11	s CERAMIC, CHIP 0.0033uF 10% 50V
C213	1-162-965-11	s CERAMIC, CHIP 0.0015uF 10% 50V
C214	1-164-670-11	s CERAMIC, CHIP 1200PF 5% 16V
C230	1-164-489-11	s CERAMIC, CHIP 0.22uF 10% 16V
C234	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C235	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C236	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V
C238	1-164-369-11	s CERAMIC, CHIP 330PF 5% 500V
C240	1-164-489-11	s CERAMIC, CHIP 0.22uF 10% 16V
C242	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C243	1-162-587-11	s CERAMIC, CHIP 0.039uF 10% 25V
C301	1-162-959-11	s CERAMIC, CHIP 330PF 5% 50V
C302	1-164-217-11	s CERAMIC, CHIP 150PF 5% 50V

(AU-144P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C304	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C305	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C306	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C307	1-162-957-11	s CERAMIC, CHIP 220PF 5% 50V
C308	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V
C309	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C401	1-162-959-11	s CERAMIC, CHIP 330PF 5% 50V
C402	1-164-217-11	s CERAMIC, CHIP 150PF 5% 50V
C404	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C405	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C406	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C407	1-162-957-11	s CERAMIC, CHIP 220PF 5% 50V
C408	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V
C409	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C503	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C504	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C505	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C506	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C507	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C510	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C603	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C604	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C605	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C606	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C607	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C610	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C701	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C702	1-137-341-11	s FILM 0.0022uF 1% 50V
C703	1-137-341-11	s FILM 0.0022uF 1% 50V
C704	1-137-342-11	s FILM 0.0039uF 1% 50V
C705	1-135-145-11	s TANTALUM, CHIP 0.47uF 10% 35V
C706	1-164-492-11	s CERAMIC, CHIP 0.15uF 10% 16V
C707	1-137-343-11	s FILM 0.0056uF 1% 50V
C708	1-137-344-11	s FILM 0.01uF 1% 50V
C709	1-137-345-11	s FILM 0.015uF 1% 50V
C710	1-137-346-11	s FILM 0.056uF 1% 50V
C711	1-164-489-11	s CERAMIC, CHIP 0.22uF 10% 16V
C713	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C715	1-163-135-00	s CERAMIC, CHIP 560PF 5% 50V
C717	1-164-695-11	s CERAMIC, CHIP 0.0022uF 5% 50V
C719	1-163-020-00	s CERAMIC, CHIP 0.0082uF 10% 50V
C721	1-163-139-00	s CERAMIC, CHIP 820PF 5% 50V
C723	1-164-695-11	s CERAMIC, CHIP 0.0022uF 5% 50V
C726	1-163-215-00	s CERAMIC, CHIP 0.0027uF 5% 50V
C727	1-163-141-00	s CERAMIC, CHIP 0.001uF 5% 50V
C728	1-164-346-11	s CERAMIC, CHIP 1uF 16V
C729	1-164-346-11	s CERAMIC, CHIP 1uF 16V
C730	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C731	1-162-959-11	s CERAMIC, CHIP 330PF 5% 50V
C801	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C802	1-137-341-11	s FILM 0.0022uF 1% 50V
C803	1-137-341-11	s FILM 0.0022uF 1% 50V
C804	1-137-342-11	s FILM 0.0039uF 1% 50V
C805	1-135-145-11	s TANTALUM, CHIP 0.47uF 10% 35V
C806	1-164-492-11	s CERAMIC, CHIP 0.15uF 10% 16V
C807	1-137-343-11	s FILM 0.0056uF 1% 50V
C808	1-137-344-11	s FILM 0.01uF 1% 50V
C809	1-137-345-11	s FILM 0.015uF 1% 50V

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Ref. No. or Q'ty	Part No.	SP Description
C810	1-137-346-11	s FILM 0.056uF 1% 50V
C811	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C812	1-164-489-11	s CERAMIC, CHIP 0.22uF 10% 16V
C813	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C815	1-163-135-00	s CERAMIC, CHIP 560PF 5% 50V
C817	1-164-695-11	s CERAMIC, CHIP 0.0022uF 5% 50V
C819	1-163-020-00	s CERAMIC, CHIP 0.0082uF 10% 50V
C821	1-163-139-00	s CERAMIC, CHIP 820PF 5% 50V
C823	1-164-695-11	s CERAMIC, CHIP 0.0022uF 5% 50V
C826	1-163-215-00	s CERAMIC, CHIP 0.0027uF 5% 50V
C827	1-163-141-00	s CERAMIC, CHIP 0.001uF 5% 50V
C828	1-164-346-11	s CERAMIC, CHIP 1uF 16V
C829	1-164-346-11	s CERAMIC, CHIP 1uF 16V
C830	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C831	1-162-959-11	s CERAMIC, CHIP 330PF 5% 50V
C901	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C902	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C903	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C904	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C905	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C906	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C907	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C908	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C909	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C910	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C911	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C912	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C913	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C914	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C915	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C916	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C917	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C918	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C919	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C920	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C921	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C922	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
CN1	1-506-483-21	s CONNECTOR, 4P, MALE
CN2	1-506-483-21	s CONNECTOR, 4P, MALE
CN3	1-506-470-11	s CONNECTOR, 5P, MALE
CN4	1-506-469-11	s CONNECTOR, 4P, MALE
CN5	1-506-468-11	s CONNECTOR, 3P, MALE
CN6	1-506-471-11	s CONNECTOR, 6P, MALE
CN7	1-506-467-11	s CONNECTOR, 2P, MALE
CN8	1-506-467-11	s CONNECTOR, 2P, MALE
CV131	1-141-393-11	s CAP, TRIMMER 100PF
CV231	1-141-393-11	s CAP, TRIMMER 100PF
D1	8-719-123-82	s DIODE 1SS303
E1	1-535-877-22	o CHIP, TP
E2	1-535-877-22	o CHIP, TP
E3	1-535-877-22	o CHIP, TP
IC1	8-757-991-00	s IC CX7991
IC2	8-752-031-28	s IC CXA1098Q
IC111	8-759-710-77	s IC NJM4560MD
IC112	8-759-710-77	s IC NJM4560MD
IC301	8-759-981-58	s IC RC2043MD

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Ref. No. or Q'ty	Part No.	SP Description
IC302	8-759-300-71	s IC HD14053BFP
IC303	8-759-710-77	s IC NJM4560MD
IC501	8-759-710-77	s IC NJM4560MD
IC502	8-759-981-92	s IC RC4558M
IC503	8-759-981-92	s IC RC4558M
IC504	8-759-981-92	s IC RC4558M
IC602	8-759-981-92	s IC RC4558M
IC603	8-759-981-92	s IC RC4558M
L1	1-408-429-00	s INDUCTOR 470uH
L2	1-408-429-00	s INDUCTOR 470uH
L3	1-408-794-00	s INDUCTOR, CHIP 270UH
L4	1-408-429-00	s INDUCTOR 470uH
L5	1-408-429-00	s INDUCTOR 470uH
LV111	1-410-854-21	s COIL, VARIABLE 18mH
LV131	1-410-853-21	s COIL, VARIABLE 4.5uH
LV211	1-410-854-21	s COIL, VARIABLE 18mH
LV231	1-410-853-21	s COIL, VARIABLE 4.5uH
Q1	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q2	8-729-905-18	s TRANSISTOR DTC144EU
Q3	8-729-105-08	s TRANSISTOR 2SA1330
Q4	8-729-105-08	s TRANSISTOR 2SA1330
Q5	8-729-141-48	s TRANSISTOR 2SB624-BV345
Q6	8-729-907-00	s TRANSISTOR DTC114EU
Q7	8-729-905-18	s TRANSISTOR DTC144EU
Q12	8-729-141-48	s TRANSISTOR 2SB624-BV345
Q14	8-729-230-63	s TRANSISTOR 2SC4116YG
Q15	8-729-230-63	s TRANSISTOR 2SC4116YG
Q16	8-729-905-12	s TRANSISTOR DTA144EU
Q17	8-729-905-18	s TRANSISTOR DTC144EU
Q50	8-729-141-75	s TRANSISTOR 2SD596-DV345
Q51	8-729-141-75	s TRANSISTOR 2SD596-DV345
Q54	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q55	8-729-905-12	s TRANSISTOR DTA144EU
Q56	8-729-117-32	s TRANSISTOR 2SC4177
Q57	8-729-920-99	s TRANSISTOR DTA114EU
Q58	8-729-905-18	s TRANSISTOR DTC144EU
Q59	8-729-920-99	s TRANSISTOR DTA114EU
Q60	8-729-905-18	s TRANSISTOR DTC144EU
Q131	8-729-209-07	s TRANSISTOR 2SC4213-B
Q132	8-729-209-07	s TRANSISTOR 2SC4213-B
Q231	8-729-209-07	s TRANSISTOR 2SC4213-B
Q232	8-729-209-07	s TRANSISTOR 2SC4213-B
Q302	8-729-209-07	s TRANSISTOR 2SC4213-B
Q305	8-729-105-37	s TRANSISTOR 2SC3360-N16
Q306	8-729-105-37	s TRANSISTOR 2SC3360-N16
Q307	8-729-209-07	s TRANSISTOR 2SC4213-B
Q402	8-729-209-07	s TRANSISTOR 2SC4213-B
Q405	8-729-105-37	s TRANSISTOR 2SC3360-N16
Q406	8-729-105-37	s TRANSISTOR 2SC3360-N16
Q407	8-729-209-07	s TRANSISTOR 2SC4213-B
R1	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R2	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R3	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R4	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R5	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R6	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R7	1-216-841-11	s METAL, CHIP 47K 5% 1/16W

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Ref. No. or Q'ty	Part No.	SP Description
R8	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R9	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R10	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R11	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R12	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R13	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R14	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R15	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R25	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R26	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R30	1-216-838-11	s METAL, CHIP 27K 5% 1/16W
R31	1-216-838-11	s METAL, CHIP 27K 5% 1/16W
R40	1-216-797-11	s METAL, CHIP 10 5% 1/16W
R50	1-218-883-11	s METAL, CHIP 33K 0.50% 1/16W
R51	1-218-883-11	s METAL, CHIP 33K 0.50% 1/16W
R52	1-218-446-11	s METAL, CHIP 1 5% 1/16W
R54	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R60	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R63	1-216-295-00	s METAL, CHIP 0-OHM
R64	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R66	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R67	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R68	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R69	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R70	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R71	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R72	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R73	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R75	1-216-816-11	s METAL, CHIP 390 5% 1/16W
R76	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R111	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R112	1-218-738-11	s METAL, CHIP 82K 0.5% 1/16W
R113	1-216-822-11	s METAL, CHIP 1.2K 5% 1/16W
R114	1-218-741-11	s METAL, CHIP 110K 0.5% 1/16W
R115	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R116	1-218-748-11	s METAL, CHIP 220K 0.50% 1/16W
R117	1-216-854-11	s METAL, CHIP 560K 5% 1/16W
R118	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R119	1-216-838-11	s METAL, CHIP 27K 5% 1/16W
R132	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R138	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R139	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R141	1-216-835-11	s METAL, CHIP 15K 5% 1/16W
R142	1-216-826-11	s METAL, CHIP 2.7K 5% 1/16W
R145	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R146	1-218-748-11	s METAL, CHIP 220K 0.50% 1/16W
R147	1-218-740-11	s METAL, CHIP 100K 0.50% 1/16W
R211	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R212	1-218-738-11	s METAL, CHIP 82K 0.5% 1/16W
R213	1-216-822-11	s METAL, CHIP 1.2K 5% 1/16W
R214	1-218-741-11	s METAL, CHIP 110K 0.5% 1/16W
R215	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R216	1-218-748-11	s METAL, CHIP 220K 0.50% 1/16W
R217	1-216-854-11	s METAL, CHIP 560K 5% 1/16W
R218	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R219	1-216-838-11	s METAL, CHIP 27K 5% 1/16W
R232	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R238	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R239	1-216-841-11	s METAL, CHIP 47K 5% 1/16W

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Ref. No. or Q'ty	Part No.	SP Description
R241	1-216-835-11	s METAL, CHIP 15K 5% 1/16W
R242	1-216-826-11	s METAL, CHIP 2.7K 5% 1/16W
R245	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R246	1-218-748-11	s METAL, CHIP 220K 0.50% 1/16W
R247	1-218-740-11	s METAL, CHIP 100K 0.50% 1/16W
R301	1-216-797-11	s METAL, CHIP 10 5% 1/16W
R302	1-216-830-11	s METAL, CHIP 5.6K 5% 1/16W
R303	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R304	1-216-851-11	s METAL, CHIP 330K 5% 1/16W
R305	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R306	1-218-700-11	s METAL, CHIP 2.2K 0.50% 1/16W
R307	1-216-839-11	s METAL, CHIP 33K 5% 1/16W
R308	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R309	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R310	1-218-723-11	s METAL, CHIP 20K 0.50% 1/16W
R311	1-218-697-11	s METAL, CHIP 1.6K 0.50% 1/16W
R312	1-218-720-11	s METAL, CHIP 15K 0.50% 1/16W
R319	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R320	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R321	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R322	1-218-723-11	s METAL, CHIP 20K 0.50% 1/16W
R401	1-216-797-11	s METAL, CHIP 10 5% 1/16W
R402	1-216-830-11	s METAL, CHIP 5.6K 5% 1/16W
R403	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R404	1-216-851-11	s METAL, CHIP 330K 5% 1/16W
R405	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R406	1-218-700-11	s METAL, CHIP 2.2K 0.50% 1/16W
R407	1-216-839-11	s METAL, CHIP 33K 5% 1/16W
R408	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R409	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R410	1-218-723-11	s METAL, CHIP 20K 0.50% 1/16W
R411	1-218-697-11	s METAL, CHIP 1.6K 0.50% 1/16W
R412	1-218-720-11	s METAL, CHIP 15K 0.50% 1/16W
R419	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R420	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R421	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R422	1-218-723-11	s METAL, CHIP 20K 0.50% 1/16W
R503	1-218-484-11	s METAL, CHIP 750 0.50% 1/16W
R506	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R507	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R508	1-218-484-11	s METAL, CHIP 750 0.50% 1/16W
R509	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R510	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R511	1-218-484-11	s METAL, CHIP 750 0.50% 1/16W
R512	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R513	1-218-697-11	s METAL, CHIP 1.6K 0.50% 1/16W
R518	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R519	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R520	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R521	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R522	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R523	1-218-484-11	s METAL, CHIP 750 0.50% 1/16W
R524	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R525	1-216-830-11	s METAL, CHIP 5.6K 5% 1/16W
R526	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R603	1-218-484-11	s METAL, CHIP 750 0.50% 1/16W
R606	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R607	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R608	1-218-484-11	s METAL, CHIP 750 0.50% 1/16W



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Ref. No. or Q'ty	Part No.	SP Description
R609	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R610	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R611	1-218-484-11	s METAL, CHIP 750 0.50% 1/16W
R612	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R613	1-218-697-11	s METAL, CHIP 1.6K 0.50% 1/16W
R618	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R619	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R620	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R621	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R622	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R623	1-218-484-11	s METAL, CHIP 750 0.50% 1/16W
R624	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R625	1-216-830-11	s METAL, CHIP 5.6K 5% 1/16W
R626	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R702	1-218-332-11	s METAL, CHIP 130K 0.50% 1/16W
R706	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R708	1-218-698-11	s METAL, CHIP 1.8K 0.50% 1/16W
R709	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R710	1-218-313-11	s METAL, CHIP 560 1% 1/16W
R711	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R712	1-218-344-11	s METAL, CHIP 7.5K 0.50% 1/16W
R713	1-218-345-11	s METAL, CHIP 9.1K 0.50% 1/16W
R714	1-218-688-11	s METAL, CHIP 680 0.50% 1/16W
R715	1-216-295-00	s METAL, CHIP 0-OHM
R716	1-216-295-00	s METAL, CHIP 0-OHM
R717	1-216-295-00	s METAL, CHIP 0-OHM
R718	1-216-295-00	s METAL, CHIP 0-OHM
R719	1-216-295-00	s METAL, CHIP 0-OHM
R720	1-216-295-00	s METAL, CHIP 0-OHM
R721	1-216-295-00	s METAL, CHIP 0-OHM
R722	1-218-701-11	s METAL, CHIP 2.4K 0.50% 1/16W
R723	1-218-701-11	s METAL, CHIP 2.4K 0.50% 1/16W
R802	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R803	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R806	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R808	1-218-698-11	s METAL, CHIP 1.8K 0.50% 1/16W
R809	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R810	1-218-313-11	s METAL, CHIP 560 1% 1/16W
R811	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R812	1-218-344-11	s METAL, CHIP 7.5K 0.50% 1/16W
R813	1-218-345-11	s METAL, CHIP 9.1K 0.50% 1/16W
R814	1-218-688-11	s METAL, CHIP 680 0.50% 1/16W
R815	1-216-295-00	s METAL, CHIP 0-OHM
R816	1-216-295-00	s METAL, CHIP 0-OHM
R817	1-216-295-00	s METAL, CHIP 0-OHM
R818	1-216-295-00	s METAL, CHIP 0-OHM
R819	1-216-295-00	s METAL, CHIP 0-OHM
R820	1-216-295-00	s METAL, CHIP 0-OHM
R821	1-216-295-00	s METAL, CHIP 0-OHM
R822	1-218-701-11	s METAL, CHIP 2.4K 0.50% 1/16W
R823	1-218-701-11	s METAL, CHIP 2.4K 0.50% 1/16W
RV1	1-237-029-11	s RES, ADJ, METAL 50
RV101	1-237-034-11	s RES, ADJ, METAL 2K
RV111	1-237-036-11	s RES, ADJ, METAL 10K
RV112	1-237-036-11	s RES, ADJ, METAL 10K
RV113	1-237-036-11	s RES, ADJ, METAL 10K
RV201	1-237-034-11	s RES, ADJ, METAL 2K
RV211	1-237-036-11	s RES, ADJ, METAL 10K

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Ref. No. or Q'ty	Part No.	SP Description
RV212	1-237-036-11	s RES, ADJ, METAL 10K
RV302	1-237-035-11	s RES, ADJ, METAL 5K
RV303	1-237-036-11	s RES, ADJ, METAL 10K
RV402	1-237-035-11	s RES, ADJ, METAL 5K
RV403	1-237-036-11	s RES, ADJ, METAL 10K
S1	1-571-275-31	s SWITCH, SLIDE
T1	1-459-865-11	s COIL, VARIABLE 3.4mH
T2	1-424-657-11	s TRANSFORMER, FE
TP2	1-535-877-22	o CHIP, TP
TP101	1-535-877-22	o CHIP, TP
TP102	1-535-877-22	o CHIP, TP
TP201	1-535-877-22	o CHIP, TP
TP202	1-535-877-22	o CHIP, TP
TP301	1-535-877-22	o CHIP, TP
TP302	1-535-877-22	o CHIP, TP
TP303	1-535-877-22	o CHIP, TP
TP401	1-535-877-22	o CHIP, TP
TP402	1-535-877-22	o CHIP, TP
TP403	1-535-877-22	o CHIP, TP

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CN-504 BOARD  
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Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6754-343-A	o MOUNTED CIRCUIT BOARD, CN-504
1pc	3-171-674-01	o BRACKET, FLOATING
2pcs	7-628-254-20	s SCREW +PS 2.6X8
C1	1-164-362-11	s CERAMIC, CHIP 470PF 5% 50V
C2	1-164-362-11	s CERAMIC, CHIP 470PF 5% 50V
C3	1-126-403-11	s ELECT, CHIP 3.3uF 20% 50V
C4	1-126-403-11	s ELECT, CHIP 3.3uF 20% 50V
C5	1-162-915-11	s CERAMIC, CHIP 10PF 50V
C6	1-162-915-11	s CERAMIC, CHIP 10PF 50V
C7	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C8	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
CN4001	1-566-581-11	s CONNECTOR, DIN 50P, FEMALE
CN4002	1-566-536-11	s CONNECTOR, 20P
CN4003	1-566-531-11	s CONNECTOR, FPC (ZIF) 15P
D1	8-719-800-76	s DIODE 1SS226
D2	8-719-800-76	s DIODE 1SS226
IC1	8-759-981-58	s IC RC2043MD
L1	1-410-380-31	s INDUCTOR, CHIP 8.2uH
L2	1-410-380-31	s INDUCTOR, CHIP 8.2uH
R1	1-218-704-11	s METAL, CHIP 3.3K 0.50% 1/16W
R2	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R3	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R4	1-218-288-11	s METAL, CHIP 300 5% 1/16W
R5	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R6	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R7	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R8	1-216-809-11	s METAL, CHIP 100 5% 1/16W

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CN-505 BOARD  
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Ref. No. or Q'ty	Part No.	SP Description
1pc	1-640-275-11	o PRINTED CIRCUIT BOARD, CN-505
1pc	3-171-682-01	o BRACKET, DD CONVERTER
3pcs	7-621-773-86	s SCREW +B 2.6X4
C1	1-124-563-11	s ELECT 2200uF 20% 25V
CN6001	1-564-708-11	o CONNECTOR, 6P, MALE
CN6002	1-564-709-11	o CONNECTOR, 7P, MALE
CN6003	1-566-095-11	o CONNECTOR, BB 11P, MALE
D1	8-719-908-00	s ESAC33-02CS
D2	8-719-911-55	s DIODE U05G
D3	8-719-911-55	s DIODE U05G

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CN-560 BOARD  
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Ref. No. or Q'ty	Part No.	SP Description
1pc	1-640-276-12	o PRINTED CIRCUIT BOARD, CN-560
C1	1-162-726-11	s CERAMIC 470PF 1% 50V
C2	1-162-726-11	s CERAMIC 470PF 1% 50V
C3	1-162-726-11	s CERAMIC 470PF 1% 50V
C4	1-162-726-11	s CERAMIC 470PF 1% 50V
CN9001	1-565-213-11	o PLUG, BB 16P, MALE
CN9002	1-506-485-11	s CONNECTOR, 6P, MALE
CN9003	1-564-708-11	o CONNECTOR, 6P, MALE
CN9004	1-573-538-11	s CONNECTOR, BB 8P, MALE
CN9005	1-565-213-11	o PLUG, BB 16P, MALE

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DUS-489 BOARD  
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Ref. No. or Q'ty	Part No.	SP Description
1pc	1-641-894-11	o PRINTED CIRCUIT BOARD, DUS-489
C1	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 6.3V
Q1	8-729-905-18	s TRANSISTOR DTC144EU
Q2	8-729-907-00	s TRANSISTOR DTC114EU
R1	1-216-833-11	s METAL, CHIP 10K 0.5% 1/10W

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DUS-852 BOARD  
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Ref. No. or Q'ty	Part No.	SP Description
1pc	1-641-735-11	o PRINTED CIRCUIT BOARD, DUS-852
C601	1-135-091-00	s TANTALUM, CHIP 1uF 20% 16V
IC601	8-759-245-04	s IC TC4S584F
IC602	8-759-209-57	s IC TC4S69F
R602	1-216-109-00	s METAL, CHIP 330K 5% 1/10W
R604	1-216-073-00	s METAL, CHIP 10K 5% 1/10W

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HP-50 BOARD  
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Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6754-347-A	o MOUNTED CIRCUIT BOARD, HP-50
1pc	1-640-278-11	o PRINTED CIRCUIT BOARD, HP-50
C1	1-161-047-00	s CERAMIC 0.0047uF 10% 25V
C2	1-161-047-00	s CERAMIC 0.0047uF 10% 25V
CN9101	1-573-537-11	s CONNECTOR, BB 6P, MALE
J1	1-507-980-41	s JACK, MINI
R1	1-249-395-11	s CARBON 15 5% 1/4W
R2	1-249-395-11	s CARBON 15 5% 1/4W
S9101	1-570-610-11	s SWITCH, TOGGLE
S9102	1-570-610-11	s SWITCH, TOGGLE

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IO-61 BOARD  
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Ref. No. or Q'ty	Part No.	SP Description
1pc	1-640-277-11	o PRINTED CIRCUIT BOARD, IO-61
C1	1-161-051-00	s CERAMIC 0.01uF 10% 50V
C2	1-161-051-00	s CERAMIC 0.01uF 10% 50V
C3	1-161-051-00	s CERAMIC 0.01uF 10% 50V
CN9201	1-506-487-11	s CONNECTOR, 8P, MALE
R1	1-249-404-00	s CARBON 82 5% 1/4W

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KY-211 BOARD  
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Ref. No. or Q'ty	Part No.	SP Description
1pc	1-640-274-11	o PRINTED CIRCUIT BOARD, KY-211
CN1	1-565-143-11	o CONNECTOR, 10P, MALE
D1	8-719-991-17	s DIODE GL1HD111
D2	8-719-991-17	s DIODE GL1HD111
D3	8-719-991-17	s DIODE GL1HD111
R1	1-216-819-11	s METAL, CHIP 680 5% 1/16W
R2	1-216-819-11	s METAL, CHIP 680 5% 1/16W
R3	1-216-819-11	s METAL, CHIP 680 5% 1/16W
S1	1-570-909-11	s SWITCH, TACTIL (REFLOW TYPE)
S2	1-570-909-11	s SWITCH, TACTIL (REFLOW TYPE)
S3	1-570-909-11	s SWITCH, TACTIL (REFLOW TYPE)
S4	1-570-909-11	s SWITCH, TACTIL (REFLOW TYPE)
S5	1-570-909-11	s SWITCH, TACTIL (REFLOW TYPE)

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MB-362 BOARD  
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Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6754-344-A	o MOUNTED CIRCUIT BOARD, MB-362
1pc	3-171-675-01	o BRACKET (A), MB
2pcs	3-703-502-41	s SCREW
CN101	1-566-520-11	s CONNECTOR, FPC 20P
CN102	1-566-515-11	s CONNECTOR, FPC 15P
CN103	1-573-727-11	s CONNECTOR, FPC 25P
CN104	1-506-730-11	o CONNECTOR, 40P, MALE
CN105	1-568-077-11	s CONNECTOR, 16P, FEMALE
CN106	1-568-079-11	s CONNECTOR, 20P, FEMALE
CN107	1-506-468-11	s CONNECTOR, 3P, MALE
CN108	1-506-469-11	s CONNECTOR, 4P, MALE
CN109	1-506-473-11	s CONNECTOR, 8P, MALE

# MB-363 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6754-345-A	o MOUNTED CIRCUIT BOARD, MB-363
1pc	3-172-695-01	o HOLDER, CN
1pc	3-171-677-01	o SUPPORT, HEXAGON
1pc	3-171-676-01	o BRACKET (B), MB
3pcs	7-621-773-86	s SCREW +B 2.6X4
C1	1-125-309-00	s DOUBLE LAYERS 0.33FARAD 5.5V
C2	1-124-557-11	s ELECT 1000uF 20% 25V
CN1	1-566-516-11	s CONNECTOR, FPC 16P
CN2	1-565-209-11	s CONNECTOR, FPC 26P, FEMALE
CN3	1-506-487-11	s CONNECTOR, 8P, MALE
CN4	1-506-484-11	s CONNECTOR, 5P, MALE
CN5	1-564-707-11	o CONNECTOR, 5P, MALE
CN6	1-506-482-11	s CONNECTOR, 3P, MALE
CN7	1-564-725-11	s CONNECTOR, 9P, MALE
CN8	1-569-335-11	s CONNECTOR, BB 9P, MALE
CN9	1-565-214-11	o SOCKET, BB 16P, FEMALE
CN10	1-573-727-11	s CONNECTOR, FPC 25P
CN11	1-565-214-11	o SOCKET, BB 16P, FEMALE
CN12	1-506-473-11	s CONNECTOR, 8P, MALE

# SE-60 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-569-193-11	o CONTACT, FEMALE
1pc	1-622-630-11	o PRINTED CIRCUIT BOARD, SE-60
CN107	1-569-196-11	o HOUSING, 3P
PH1	8-719-907-32	s PHOTO INTERRUPTER GP-1L04
R1	1-249-412-11	s CARBON 390 5% 1/4W

# SE-164 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-564-831-11	o CONTACT, FEMALE
1pc	1-568-030-11	o CONTACT, FEMALE
1pc	1-569-193-11	o CONTACT, FEMALE
1pc	1-573-745-11	o HOUSING, 2P
1pc	1-640-284-11	o PRINTED CIRCUIT BOARD, SE-164
CN2	1-806-682-81	s SENSOR, CONDENSATION
CN1003	1-569-200-11	o HOUSING, 7P

# SS-46P BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6715-457-A	o MOUNTED CIRCUIT BOARD, SS-46P
2pcs	3-171-681-01	o HOLDER, GP2S09
C1	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C2	1-162-957-11	s CERAMIC, CHIP 220PF 5% 50V
C3	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C4	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C5	1-126-401-11	s ELECT, CHIP 1uF 20% 50V
C6	1-126-398-11	s ELECT, CHIP 4.7uF 20% 35V
C8	1-162-917-11	s CERAMIC, CHIP 15PF 5% 50V
C9	1-162-917-11	s CERAMIC, CHIP 15PF 5% 50V
C10	1-162-975-11	s CERAMIC, CHIP 24PF 5% 50V
C11	1-162-975-11	s CERAMIC, CHIP 24PF 5% 50V
C13	1-135-091-00	s TANTALUM, CHIP 1uF 10% 16V
C14	1-162-964-11	s CERAMIC, CHIP 0.001uF 10% 50V
C15	1-162-964-11	s CERAMIC, CHIP 0.001uF 10% 50V
C16	1-135-091-00	s TANTALUM, CHIP 1uF 10% 16V
C17	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C18	1-135-091-00	s TANTALUM, CHIP 1uF 10% 16V
C19	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C20	1-162-916-11	s CERAMIC, CHIP 12PF 5% 50V
C21	1-162-916-11	s CERAMIC, CHIP 12PF 5% 50V
C23	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C24	1-162-964-11	s CERAMIC, CHIP 0.001uF 10% 50V
C25	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C26	1-162-964-11	s CERAMIC, CHIP 0.001uF 10% 50V
C141	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C151	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C152	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C154	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C155	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C156	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C157	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C159	1-124-478-11	s ELECT 100uF 20% 25V
C160	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C161	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C162	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C163	1-126-398-11	s ELECT, CHIP 4.7uF 20% 35V
C164	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C201	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C202	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V
C203	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C204	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V
C205	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C206	1-164-677-11	s CERAMIC, CHIP 0.033uF 10% 16V
C207	1-162-967-11	s CERAMIC, CHIP 0.0033uF 10% 50V
C208	1-135-211-11	s TANTALUM, CHIP 6.8uF 20% 6.3V
C209	1-135-211-11	s TANTALUM, CHIP 6.8uF 20% 6.3V
C210	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C211	1-162-963-11	s CERAMIC, CHIP 680PF 10% 50V
C212	1-162-959-11	s CERAMIC, CHIP 330PF 5% 50V
C213	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C214	1-162-969-11	s CERAMIC, CHIP 0.0068uF 10% 25V
C215	1-162-968-11	s CERAMIC, CHIP 0.0047uF 10% 50V
C216	1-126-630-11	s ELECT 82uF 20% 25V
C217	1-162-965-11	s CERAMIC, CHIP 0.0015uF 10% 50V
C218	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C219	1-162-966-11	s CERAMIC, CHIP 0.0022uF 10% 50V

## (SS-46P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C220	1-162-968-11	s CERAMIC, CHIP 0.0047uF 10% 50V
C221	1-126-630-11	s ELECT 82uF 20% 25V
C222	1-162-957-11	s CERAMIC, CHIP 220PF 5% 50V
C223	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C224	1-162-964-11	s CERAMIC, CHIP 0.001uF 10% 50V
C225	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C226	1-162-916-11	s CERAMIC, CHIP 12PF 5% 50V
C227	1-162-916-11	s CERAMIC, CHIP 12PF 5% 50V
C228	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C229	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C230	1-162-964-11	s CERAMIC, CHIP 0.001uF 10% 50V
C231	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C233	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C234	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C235	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C236	1-162-968-11	s CERAMIC, CHIP 0.0047uF 10% 50V
C237	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C238	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C239	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C240	1-162-964-11	s CERAMIC, CHIP 0.001uF 10% 50V
C241	1-162-966-11	s CERAMIC, CHIP 0.0022uF 10% 50V
C242	1-162-966-11	s CERAMIC, CHIP 0.0022uF 10% 50V
C243	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C244	1-126-630-11	s ELECT 82uF 20% 25V
C245	1-124-489-11	s ELECT 150uF 20% 25V
C263	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C401	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C402	1-162-968-11	s CERAMIC, CHIP 0.0047uF 10% 50V
C403	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C404	1-162-966-11	s CERAMIC, CHIP 0.0022uF 10% 50V
C405	1-162-968-11	s CERAMIC, CHIP 0.0047uF 10% 50V
C406	1-163-207-00	s CERAMIC 0.0012uF 5% 50V
C407	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C408	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C409	1-162-969-11	s CERAMIC, CHIP 0.0068uF 10% 25V
C410	1-162-965-11	s CERAMIC, CHIP 0.0015uF 10% 50V
C411	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C412	1-126-630-11	s ELECT 82uF 20% 25V
C413	1-162-968-11	s CERAMIC, CHIP 0.0047uF 10% 50V
C415	1-162-916-11	s CERAMIC, CHIP 12PF 5% 50V
C416	1-126-630-11	s ELECT 82uF 20% 25V
C417	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C501	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C502	1-162-957-11	s CERAMIC, CHIP 220PF 5% 50V
C503	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C504	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C505	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C506	1-162-957-11	s CERAMIC, CHIP 220PF 5% 50V
C507	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C508	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C509	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C510	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C511	1-124-343-00	s ELECT 2200uF 20% 16V
C512	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C513	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C514	1-124-478-11	s ELECT 100uF 20% 25V
C515	1-124-343-00	s ELECT 2200uF 20% 16V
C516	1-164-146-11	s CERAMIC, CHIP 0.0033uF 10% 50V
C517	1-164-146-11	s CERAMIC, CHIP 0.0033uF 10% 50V

## (SS-46P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C518	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C601	1-135-091-00	s TANTALUM, CHIP 1uF 10% 16V
CN1	1-562-773-11	o CONNECTOR, 40P, FEMALE
CN2	1-506-478-11	s CONNECTOR, 13P, MALE
CN3	1-506-472-11	s CONNECTOR, 7P, MALE
CN4	1-506-467-11	s CONNECTOR, 2P, MALE
CN5	1-506-467-11	s CONNECTOR, 2P, MALE
CN6	1-565-143-11	o CONNECTOR, 10P, MALE
CN7	1-506-467-11	s CONNECTOR, 2P, MALE
CN101	1-506-467-11	s CONNECTOR, 2P, MALE
CN102	1-506-467-11	s CONNECTOR, 2P, MALE
CN103	1-506-468-11	s CONNECTOR, 3P, MALE
CN201	1-506-469-11	s CONNECTOR, 4P, MALE
CN202	1-506-467-11	s CONNECTOR, 2P, MALE
CN203	1-506-474-11	s CONNECTOR, 9P, MALE
CN204	1-506-468-11	s CONNECTOR, 3P, MALE
CN205	1-506-467-11	s CONNECTOR, 2P, MALE
CN206	1-580-536-11	s CONNECTOR, 14P, MALE
D1	8-719-941-09	s DIODE DAP202U
D2	8-719-105-52	s DIODE RD3.6M-B2
D105	8-719-106-17	s DIODE RD6.8M-B2
D202	8-719-941-09	s DIODE DAP202U
D204	8-719-106-89	s DIODE RD15M-B2
D205	8-719-981-01	s DIODE ERA81-004
D206	8-719-981-01	s DIODE ERA81-004
D207	8-719-981-01	s DIODE ERA81-004
D401	8-719-941-86	s DIODE DAN202U
D402	8-719-941-09	s DIODE DAP202U
D403	8-719-981-01	s DIODE ERA81-004
D501	8-719-941-09	s DIODE DAP202U
D502	8-719-941-86	s DIODE DAN202U
D503	8-719-200-02	s DIODE 10E2
D504	8-719-941-86	s DIODE DAN202U
D505	8-719-200-02	s DIODE 10E2
D506	8-719-200-02	s DIODE 10E2
D507	8-719-941-86	s DIODE DAN202U
D508	8-719-941-86	s DIODE DAN202U
D509	8-719-106-45	s DIODE RD9.1M-B3
E1	1-535-877-22	o CHIP, TP
E2	1-535-877-22	o CHIP, TP
E3	1-535-877-22	o CHIP, TP
IC1	8-752-835-49	s IC CXP80624-264Q
IC2	8-759-518-79	s IC MB88325PF
IC3	8-759-981-65	s IC LM2903M
IC4	8-759-940-45	s IC S-8054HN-CB
IC5	8-759-009-51	s IC MC14538BF
IC6	8-759-925-80	s IC SN74HC14NS
IC7	8-759-925-74	s IC TC74HC04NS
IC12	8-759-009-51	s IC MC14538BF
IC13	8-759-008-82	s IC MC14013BF
IC14	8-759-009-51	s IC MC14538BF
IC15	8-759-209-57	s IC TC4S69F
IC16	8-759-008-79	s IC MC14011BF
IC17	8-759-234-13	s IC TC4S30F
IC103	8-759-948-05	s IC BA6229
IC104	8-759-150-61	s IC UPC78L05T
IC201	8-752-835-48	s IC CXP80624-265Q



## (SS-46P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
IC202	8-759-981-92	s IC RC4558M
IC203	8-759-981-92	s IC RC4558M
IC205	8-759-981-92	s IC RC4558M
IC206	8-759-008-82	s IC MC14013BF
IC207	8-759-234-13	s IC TC4S30F
IC209	8-759-300-71	s IC HD14053BFP
IC210	8-759-111-56	s IC UPC4572G2
IC211	8-759-981-65	s IC LM2903M
IC212	8-759-209-57	s IC TC4S69F
IC213	8-759-981-61	s IC LM2901M
IC214	8-759-100-94	s IC UPC358G2
IC216	8-759-300-71	s IC HD14053BFP
IC217	8-759-100-95	s IC UPC324G2
IC218	8-759-205-56	s IC TA7267P
IC401	8-759-981-61	s IC LM2901M
IC402	8-759-008-79	s IC MC14011BF
IC403	8-759-209-57	s IC TC4S69F
IC501	8-759-805-32	s IC LA7205M
IC502	8-759-805-32	s IC LA7205M
IC504	8-759-209-69	s IC TC4S11F
IC601	8-759-245-04	s IC TC4S584F
IC602	8-759-209-57	s IC TC4S69F
L1	1-408-773-31	s INDUCTOR, CHIP 4.7uH
L101	1-408-773-31	s INDUCTOR, CHIP 4.7uH
L102	1-408-773-31	s INDUCTOR, CHIP 4.7uH
L104	1-408-773-31	s INDUCTOR, CHIP 4.7uH
L105	1-408-773-31	s INDUCTOR, CHIP 4.7uH
L151	1-412-533-11	s INDUCTOR 47uH
L152	1-410-393-11	s INDUCTOR, CHIP 100UH
L201	1-424-517-11	s COIL, CHOKE 200UH
L202	1-424-517-11	s COIL, CHOKE 200UH
L203	1-412-533-11	s INDUCTOR 47uH
L401	1-424-517-11	s COIL, CHOKE 200UH
PH1	8-719-939-11	s PHOTO INTERRUPTER GP-2S09-B
PH2	8-719-939-11	s PHOTO INTERRUPTER GP-2S09-B
Q1	8-729-905-18	s TRANSISTOR DTC144EU
Q2	8-729-905-18	s TRANSISTOR DTC144EU
Q3	8-729-906-33	s TRANSISTOR DTC114YU
Q4	8-729-905-12	s TRANSISTOR DTA144EU
Q5	8-729-905-18	s TRANSISTOR DTC144EU
Q6	8-729-117-32	s TRANSISTOR 2SC4177
Q7	8-729-117-32	s TRANSISTOR 2SC4177
Q8	8-729-117-32	s TRANSISTOR 2SC4177
Q9	8-729-905-18	s TRANSISTOR DTC144EU
Q10	8-729-905-18	s TRANSISTOR DTC144EU
Q11	8-729-905-18	s TRANSISTOR DTC144EU
Q12	8-729-117-32	s TRANSISTOR 2SC4177
Q13	8-729-117-32	s TRANSISTOR 2SC4177
Q14	8-729-905-18	s TRANSISTOR DTC144EU
Q15	8-729-905-18	s TRANSISTOR DTC144EU
Q151	8-729-106-68	s TRANSISTOR 2SC1615A-GP
Q152	8-729-106-68	s TRANSISTOR 2SC1615A-GP
Q201	8-729-209-07	s TRANSISTOR 2SC4213-B
Q202	8-729-117-32	s TRANSISTOR 2SC4177
Q203	8-729-117-32	s TRANSISTOR 2SC4177
Q204	8-729-220-93	s TRANSISTOR 2SK209-G

## (SS-46P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q205	8-729-117-32	s TRANSISTOR 2SC4177
Q206	8-729-106-68	s TRANSISTOR 2SC1615A-GP
Q208	8-729-209-01	s TRANSISTOR 2SB907
Q209	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q210	8-729-807-50	s TRANSISTOR 2SD1623
Q211	8-729-117-32	s TRANSISTOR 2SC4177
Q212	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q213	8-729-106-68	s TRANSISTOR 2SC1615A-GP
Q214	8-729-143-63	s TRANSISTOR 2SJ132
Q215	8-729-117-32	s TRANSISTOR 2SC4177
Q401	8-729-209-01	s TRANSISTOR 2SB907
Q402	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q403	8-729-807-50	s TRANSISTOR 2SD1623
Q501	8-729-905-12	s TRANSISTOR DTA144EU
Q502	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q503	8-729-117-32	s TRANSISTOR 2SC4177
Q504	8-729-116-42	s TRANSISTOR 2SD1164-L
Q505	8-729-116-42	s TRANSISTOR 2SD1164-L
Q506	8-729-905-12	s TRANSISTOR DTA144EU
Q507	8-729-905-18	s TRANSISTOR DTC144EU
Q508	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q509	8-729-116-42	s TRANSISTOR 2SD1164-L
Q510	8-729-905-12	s TRANSISTOR DTA144EU
Q511	8-729-905-12	s TRANSISTOR DTA144EU
R1	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R2	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R3	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R4	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R5	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R6	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R7	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R8	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R9	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R10	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R11	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R12	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R13	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R14	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R15	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R16	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R17	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R18	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R19	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R20	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R21	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R22	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R23	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R24	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R25	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R26	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R27	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R28	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R29	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R30	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R31	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R32	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R33	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R34	1-216-821-11	s METAL, CHIP 1K 5% 1/16W

## (SS-46P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R35	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R36	1-218-727-11	s METAL, CHIP 30K 0.50% 1/16W
R37	1-216-820-11	s METAL, CHIP 820 5% 1/16W
R38	1-216-846-11	s METAL, CHIP 120K 5% 1/16W
R39	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R40	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R41	1-216-854-11	s METAL, CHIP 560K 5% 1/16W
R42	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R43	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R44	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R45	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R46	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R47	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R48	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R49	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R50	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R51	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R52	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R53	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R54	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R55	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R56	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R57	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R58	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R59	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R60	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R61	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R62	1-216-819-11	s METAL, CHIP 680 5% 1/16W
R63	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R64	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R65	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R66	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R67	1-216-815-11	s METAL, CHIP 330 5% 1/16W
R68	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R69	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R70	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R71	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R72	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R73	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R74	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R75	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R76	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R77	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R78	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R79	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R80	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R81	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R82	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R83	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R84	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R85	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R86	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R87	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R88	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R89	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R90	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R91	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R92	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R93	1-216-841-11	s METAL, CHIP 47K 5% 1/16W

## (SS-46P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R94	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R95	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R96	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R97	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R98	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R99	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R100	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R101	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R102	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R103	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R104	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R105	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R106	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R107	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R108	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R109	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R110	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R111	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R112	1-216-847-11	s METAL, CHIP 150K 5% 1/16W
R113	1-216-836-11	s METAL, CHIP 18K 5% 1/16W
R114	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R115	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R116	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R117	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R118	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R119	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R120	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R121	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R122	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R123	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R124	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R125	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R126	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R127	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R128	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R129	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R130	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R131	1-216-311-00	s METAL, CHIP 6.8 5% 1/10W
R132	1-216-311-00	s METAL, CHIP 6.8 5% 1/10W
R133	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R134	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R135	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R136	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R137	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R151	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R152	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R201	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R202	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R203	1-216-851-11	s METAL, CHIP 330K 5% 1/16W
R204	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R205	1-216-851-11	s METAL, CHIP 330K 5% 1/16W
R206	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R207	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R208	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R209	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R210	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R211	1-216-831-11	s METAL, CHIP 6.8K 5% 1/16W
R212	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R213	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W

## (SS-46P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R214	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R215	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R216	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R217	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R218	1-216-851-11 s	METAL, CHIP 330K 5% 1/16W
R219	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R220	1-216-851-11 s	METAL, CHIP 330K 5% 1/16W
R221	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R222	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R223	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R224	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R225	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R226	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R227	1-216-797-11 s	METAL, CHIP 10 5% 1/16W
R228	1-216-827-11 s	METAL, CHIP 3.3K 5% 1/16W
R229	1-216-823-11 s	METAL, CHIP 1.5K 5% 1/16W
R230	1-216-853-11 s	METAL, CHIP 470K 5% 1/16W
R231	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R232	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R233	1-216-855-11 s	METAL, CHIP 680K 5% 1/16W
R234	1-216-855-11 s	METAL, CHIP 680K 5% 1/16W
R235	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R236	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R237	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R238	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R239	1-216-818-11 s	METAL, CHIP 560 5% 1/16W
R240	1-216-852-11 s	METAL, CHIP 390K 5% 1/16W
R241	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R242	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R243	1-216-852-11 s	METAL, CHIP 390K 5% 1/16W
R244	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R245	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R246	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R247	1-216-864-11 s	METAL, CHIP 0 5% 1/16W
R248	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R249	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R250	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R251	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R252	1-216-853-11 s	METAL, CHIP 470K 5% 1/16W
R253	1-216-853-11 s	METAL, CHIP 470K 5% 1/16W
R254	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R255	1-216-854-11 s	METAL, CHIP 560K 5% 1/16W
R256	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R257	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R258	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R259	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R260	1-216-838-11 s	METAL, CHIP 27K 5% 1/16W
R261	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R262	1-216-840-11 s	METAL, CHIP 39K 5% 1/16W
R263	1-216-823-11 s	METAL, CHIP 1.5K 5% 1/16W
R264	1-216-830-11 s	METAL, CHIP 5.6K 5% 1/16W
R265	1-216-822-11 s	METAL, CHIP 1.2K 5% 1/16W
R266	1-216-843-11 s	METAL, CHIP 68K 5% 1/16W
R267	1-216-836-11 s	METAL, CHIP 18K 5% 1/16W
R268	1-216-827-11 s	METAL, CHIP 3.3K 5% 1/16W
R269	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R270	1-216-832-11 s	METAL, CHIP 8.2K 5% 1/16W
R271	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R272	1-216-839-11 s	METAL, CHIP 33K 5% 1/16W

## (SS-46P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R273	1-218-740-11 s	METAL, CHIP 100K 0.50% 1/16W
R275	1-218-740-11 s	METAL, CHIP 100K 0.50% 1/16W
R276	1-218-746-11 s	METAL, CHIP 180K 0.50% 1/16W
R277	1-218-716-11 s	METAL, CHIP 10K 0.50% 1/16W
R278	1-218-716-11 s	METAL, CHIP 10K 0.50% 1/16W
R279	1-218-883-11 s	METAL, CHIP 33K 0.50% 1/16W
R280	1-216-844-11 s	METAL, CHIP 82K 5% 1/16W
R281	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R282	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R283	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R284	1-218-748-11 s	METAL, CHIP 220K 0.50% 1/16W
R285	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R286	1-216-345-11 s	METAL, CHIP 0.47 5% 1W
R287	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R288	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R289	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R290	1-218-295-11 s	METAL, CHIP 4.3K 5% 1/16W
R291	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R292	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R293	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R294	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R295	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R296	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R297	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R299	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R300	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R301	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R302	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R303	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R304	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R305	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R306	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R307	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R308	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R309	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R310	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R311	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R312	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R313	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R314	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R315	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R316	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R317	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R318	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R319	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R320	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R321	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R322	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R323	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R324	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R325	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R326	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R327	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R328	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R329	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R330	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R331	1-218-740-11 s	METAL, CHIP 100K 0.50% 1/16W
R333	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R334	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W

## (SS-46P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R347	1-216-835-11	s METAL, CHIP 15K 5% 1/16W
R348	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R349	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R350	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R352	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R401	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R402	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R403	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R404	1-216-853-11	s METAL, CHIP 470K 5% 1/16W
R405	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R406	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R407	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R408	1-216-831-11	s METAL, CHIP 6.8K 5% 1/16W
R409	1-216-853-11	s METAL, CHIP 470K 5% 1/16W
R410	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R411	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R412	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R413	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R414	1-218-740-11	s METAL, CHIP 100K 0.50% 1/16W
R415	1-218-740-11	s METAL, CHIP 100K 0.50% 1/16W
R416	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R417	1-216-836-11	s METAL, CHIP 18K 5% 1/16W
R418	1-216-839-11	s METAL, CHIP 33K 5% 1/16W
R419	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R420	1-216-840-11	s METAL, CHIP 39K 5% 1/16W
R421	1-216-836-11	s METAL, CHIP 18K 5% 1/16W
R422	1-216-843-11	s METAL, CHIP 68K 5% 1/16W
R423	1-216-823-11	s METAL, CHIP 1.5K 5% 1/16W
R424	1-216-822-11	s METAL, CHIP 1.2K 5% 1/16W
R425	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R426	1-216-827-11	s METAL, CHIP 3.3K 5% 1/16W
R427	1-216-831-11	s METAL, CHIP 6.8K 5% 1/16W
R428	1-216-839-11	s METAL, CHIP 33K 5% 1/16W
R429	1-216-827-11	s METAL, CHIP 3.3K 5% 1/16W
R430	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R431	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R432	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R433	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R434	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R435	1-216-830-11	s METAL, CHIP 5.6K 5% 1/16W
R436	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R437	1-216-823-11	s METAL, CHIP 1.5K 5% 1/16W
R501	1-216-804-11	s METAL, CHIP 39 5% 1/16W
R502	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R503	1-218-883-11	s METAL, CHIP 33K 0.50% 1/16W
R504	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R505	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R506	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R507	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R508	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R509	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R510	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R511	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R512	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R513	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R514	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R515	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R516	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R517	1-216-817-11	s METAL, CHIP 470 5% 1/16W

## (SS-46P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R518	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R519	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R520	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R521	1-216-818-11	s METAL, CHIP 560 5% 1/16W
R522	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R602	1-216-851-11	s METAL, CHIP 330K 5% 1/16W
R604	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R605	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R606	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
RV4	1-237-040-11	s RES, ADJ METAL 200K
RV5	1-237-040-11	s RES, ADJ METAL 200K
RV201	1-237-035-11	s RES, ADJ METAL 5K
RV202	1-237-035-11	s RES, ADJ METAL 5K
RV203	1-237-036-11	s RES, ADJ METAL 10K
RV204	1-237-040-11	s RES, ADJ METAL 200K
RV205	1-237-040-11	s RES, ADJ METAL 200K
RV206	1-237-040-11	s RES, ADJ METAL 200K
S1	1-572-719-11	s SWITCH, PUSH
S2	1-572-719-11	s SWITCH, PUSH
S3	1-572-719-11	s SWITCH, PUSH
S4	1-572-719-11	s SWITCH, PUSH
S5	1-571-275-31	s SWITCH, SLIDE
SP1	1-566-388-11	s CONNECTOR 8P, MALE
TH1	1-808-656-11	s THERMISTOR
TP1	1-535-877-22	o CHIP, TP
TP2	1-535-877-22	o CHIP, TP
TP3	1-535-877-22	o CHIP, TP
TP4	1-535-877-22	o CHIP, TP
TP5	1-535-877-22	o CHIP, TP
TP6	1-535-877-22	o CHIP, TP
TP7	1-535-877-22	o CHIP, TP
TP14	1-535-877-22	o CHIP, TP
TP15	1-535-877-22	o CHIP, TP
TP16	1-535-877-22	o CHIP, TP
TP17	1-535-877-22	o CHIP, TP
TP18	1-535-877-22	o CHIP, TP
TP19	1-535-877-22	o CHIP, TP
TP20	1-535-877-22	o CHIP, TP
TP103	1-535-877-22	o CHIP, TP
TP201	1-535-877-22	o CHIP, TP
TP202	1-535-877-22	o CHIP, TP
TP203	1-535-877-22	o CHIP, TP
TP204	1-535-877-22	o CHIP, TP
TP205	1-535-877-22	o CHIP, TP
TP206	1-535-877-22	o CHIP, TP
TP207	1-535-877-22	o CHIP, TP
TP208	1-535-877-22	o CHIP, TP
TP209	1-535-877-22	o CHIP, TP
TP210	1-535-877-22	o CHIP, TP
TP211	1-535-877-22	o CHIP, TP
TP212	1-535-877-22	o CHIP, TP
TP214	1-535-877-22	o CHIP, TP
TP215	1-535-877-22	o CHIP, TP
TP216	1-535-877-22	o CHIP, TP
TP218	1-535-877-22	o CHIP, TP
TP401	1-535-877-22	o CHIP, TP
TP402	1-535-877-22	o CHIP, TP

## (SS-46P BOARD)

Ref. No.  
or Q'ty Part No. SP Description

TP403 1-535-877-22 o CHIP, TP  
TP404 1-535-877-22 o CHIP, TP  
TP406 1-535-877-22 o CHIP, TP  
X1 1-567-885-11 s CRYSTAL 12.0MHz  
X2 1-579-458-11 s CRYSTAL 17.734475MHz  
X201 1-567-885-11 s CRYSTAL 12.0MHz

## SW-457 BOARD

Ref. No.  
or Q'ty Part No. SP Description

lpc 1-569-193-11 o CONTACT, FEMALE  
lpc 1-640-282-11 o PRINTED CIRCUIT BOARD, SW-457  
lpc 3-670-095-00 o HOLDER, LED  
CN1005 1-569-195-31 o HOUSING, 2P  
D1 8-719-902-27 s DIODE EBR3402S  
S1 1-570-608-11 s SWITCH, TOGGLE

## SW-474 BOARD

Ref. No.  
or Q'ty Part No. SP Description

lpc 1-640-279-11 o PRINTED CIRCUIT BOARD, SW-474  
CB1 1-532-525-00 s BREAKER, CIRCUIT 6.3A 125V  
CN6004 1-564-704-11 o PIN HEADER, STRAIGHT 2P

## TC-60P BOARD

Ref. No.  
or Q'ty Part No. SP Description

lpc A-6713-470-A o MOUNTED CIRCUIT BOARD, TC-60P  
lpc 3-171-678-01 o HOLDER, LCD  
lpc 3-171-679-01 o HOLDER, LED  
C1 1-135-210-11 s TANTALUM, CHIP 4.7uF 20% 10V  
C2 1-162-916-11 s CERAMIC, CHIP 12PF 5% 50V  
C3 1-162-916-11 s CERAMIC, CHIP 12PF 5% 50V  
C5 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V  
C6 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V  
C7 1-162-952-11 s CERAMIC, CHIP 82PF 5% 50V  
C8 1-164-315-11 s CERAMIC, CHIP 470PF 10% 50V  
C9 1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V  
C101 1-164-315-11 s CERAMIC, CHIP 470PF 10% 50V  
C102 1-164-315-11 s CERAMIC, CHIP 470PF 10% 50V  
C103 1-128-049-11 s ELECT 1uF 50V  
C104 1-128-049-11 s ELECT 1uF 50V  
C105 1-128-049-11 s ELECT 1uF 50V  
C106 1-162-941-11 s CERAMIC, CHIP 10PF 50V  
C107 1-162-941-11 s CERAMIC, CHIP 10PF 50V  
C108 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V  
C109 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V  
C110 1-162-949-11 s CERAMIC, CHIP 47PF 5% 50V  
C111 1-135-210-11 s TANTALUM, CHIP 4.7uF 20% 10V  
C112 1-135-157-21 s TANTALUM 10uF 10% 6.3V  
C113 1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V  
C115 1-135-157-21 s TANTALUM 10uF 10% 6.3V  
C116 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V  
C117 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V  
C118 1-162-965-11 s CERAMIC, CHIP 0.0015uF 10% 50V  
C119 1-163-137-00 s CERAMIC, CHIP 680PF 5% 50V  
C201 1-164-315-11 s CERAMIC, CHIP 470PF 10% 50V  
C202 1-164-315-11 s CERAMIC, CHIP 470PF 10% 50V  
C203 1-128-049-11 s ELECT 1uF 50V  
C204 1-128-049-11 s ELECT 1uF 50V  
C205 1-128-049-11 s ELECT 1uF 50V  
C206 1-162-941-11 s CERAMIC, CHIP 10PF 50V  
C207 1-162-941-11 s CERAMIC, CHIP 10PF 50V  
C208 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V  
C209 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V  
C210 1-162-949-11 s CERAMIC, CHIP 47PF 5% 50V  
C211 1-135-210-11 s TANTALUM, CHIP 4.7uF 20% 10V  
C212 1-135-157-21 s TANTALUM 10uF 10% 6.3V  
C213 1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V  
C214 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V  
C215 1-135-157-21 s TANTALUM 10uF 10% 6.3V  
C216 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V  
C217 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V  
C218 1-162-965-11 s CERAMIC, CHIP 0.0015uF 10% 50V  
C219 1-163-137-00 s CERAMIC, CHIP 680PF 5% 50V  
C303 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V  
C304 1-135-157-21 s TANTALUM 10uF 10% 6.3V  
C306 1-135-180-21 s TANTALUM 33uF 10% 10V  
C403 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V  
C404 1-135-157-21 s TANTALUM 10uF 10% 6.3V  
C406 1-135-180-21 s TANTALUM 33uF 10% 10V  
C500 1-135-177-21 s TANTALUM, CHIP 1uF 10% 25V  
C501 1-135-177-21 s TANTALUM, CHIP 1uF 10% 25V  
C502 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V  
C503 1-162-970-11 s CERAMIC, CHIP 0.01uF 10% 25V



## (TC-60P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C504	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C505	1-135-177-21	s TANTALUM, CHIP 1uF 10% 25V
C506	1-135-210-11	s TANTALUM, CHIP 4.7uF 20% 10V
C507	1-135-210-11	s TANTALUM, CHIP 4.7uF 20% 10V
C508	1-125-447-11	s DOUBLE LAYERS 1FARAD 5.5V
C511	1-135-210-11	s TANTALUM, CHIP 4.7uF 20% 10V
C512	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C513	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C514	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C515	1-135-073-00	s TANTALUM, CHIP 0.33uF 10% 35V
C516	1-135-210-11	s TANTALUM, CHIP 4.7uF 20% 10V
C517	1-135-073-00	s TANTALUM, CHIP 0.33uF 10% 35V
C518	1-135-089-21	s TANTALUM, CHIP 6.8uF 10% 20V
C519	1-164-315-11	s CERAMIC, CHIP 470PF 10% 50V
C520	1-164-315-11	s CERAMIC, CHIP 470PF 10% 50V
C522	1-135-164-21	s TANTALUM, CHIP 22uF 10% 16V
C523	1-162-921-11	s CERAMIC, CHIP 33PF 5% 50V
C524	1-162-921-11	s CERAMIC, CHIP 33PF 5% 50V
C525	1-162-921-11	s CERAMIC, CHIP 33PF 5% 50V
C526	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C527	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V
C528	1-135-177-21	s TANTALUM, CHIP 1uF 10% 25V
C529	1-135-210-11	s TANTALUM, CHIP 4.7uF 20% 10V
C530	1-135-210-11	s TANTALUM, CHIP 4.7uF 20% 10V
C531	1-163-137-00	s CERAMIC, CHIP 680PF 5% 50V
C532	1-162-919-11	s CERAMIC, CHIP 22PF 5% 50V
C533	1-162-919-11	s CERAMIC, CHIP 22PF 5% 50V
C534	1-162-949-11	s CERAMIC, CHIP 47PF 5% 50V
C535	1-135-166-21	s TANTALUM, CHIP 47uF 10% 10V
C536	1-163-143-00	s CERAMIC, CHIP 0.0012uF 5% 50V
C537	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C538	1-135-166-21	s TANTALUM, CHIP 47uF 10% 10V
C539	1-164-473-11	s CERAMIC, CHIP 820PF 5% 50V
C540	1-135-166-21	s TANTALUM, CHIP 47uF 10% 10V
C541	1-162-960-11	s CERAMIC, CHIP 220PF 10% 50V
C542	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C543	1-162-568-11	s CERAMIC, CHIP 0.33uF 25V
C701	1-135-161-21	s TANTALUM, CHIP 22uF 10% 10V
C702	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C703	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C704	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C705	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C706	1-135-210-11	s TANTALUM, CHIP 4.7uF 20% 10V
C707	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C708	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C709	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C710	1-126-412-11	s ELECT, CHIP 220uF 20% 4V
C714	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C715	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C716	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C717	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
C718	1-135-216-11	s TANTALUM, CHIP 10uF 20% 10V
CN1	1-566-532-11	s CONNECTOR, FPC 16P
CN2	1-506-478-11	s CONNECTOR, 13P, MALE
CN101	1-506-482-11	s CONNECTOR, 3P, MALE
CN102	1-506-482-11	s CONNECTOR, 3P, MALE
CN103	1-565-212-11	s CONNECTOR, FPC (ZIF) 26P FEMALE
CN104	1-506-482-11	s CONNECTOR, 3P, MALE

## (TC-60P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
CN105	1-506-482-11	s CONNECTOR, 3P, MALE
CN106	1-506-481-11	s CONNECTOR, 2P, MALE
CN107	1-506-481-11	s CONNECTOR, 2P, MALE
CN108	1-506-481-11	s CONNECTOR, 2P, MALE
D1	8-719-902-27	s DIODE EBR3402S
D2	8-719-941-86	s DIODE DAN202U
D3	1-808-016-11	s ARRAY, LED
D4	8-719-110-17	s DIODE RD10ES-B2
D5	8-719-987-74	s DIODE GL3HY43
D6	8-719-987-74	s DIODE GL3HY43
D7	8-719-987-74	s DIODE GL3HY43
D8	8-719-987-74	s DIODE GL3HY43
D101	8-719-800-76	s DIODE 1SS226
D102	8-719-800-76	s DIODE 1SS226
D103	8-719-941-23	s DIODE DA204U
D201	8-719-800-76	s DIODE 1SS226
D202	8-719-800-76	s DIODE 1SS226
D203	8-719-941-23	s DIODE DA204U
D301	8-719-123-85	s DIODE 1SS304
D501	8-719-941-86	s DIODE DAN202U
D502	8-719-938-72	s DIODE SB01-05CP
D503	8-719-941-86	s DIODE DAN202U
D504	8-719-941-86	s DIODE DAN202U
D505	8-719-941-86	s DIODE DAN202U
D506	8-719-941-86	s DIODE DAN202U
D507	8-719-941-86	s DIODE DAN202U
D508	8-719-160-20	s DIODE RD4.7F-B
D509	8-719-800-76	s DIODE 1SS226
D510	8-719-938-72	s DIODE SB01-05CP
D511	8-719-938-72	s DIODE SB01-05CP
D512	8-719-800-76	s DIODE 1SS226
D513	8-719-941-86	s DIODE DAN202U
D514	8-719-105-28	s DIODE RD2.4M-B
D515	8-719-105-28	s DIODE RD2.4M-B
D516	8-719-941-86	s DIODE DAN202U
D517	8-719-941-23	s DIODE DA204U
D518	8-719-941-23	s DIODE DA204U
D701	8-719-123-85	s DIODE 1SS304
D702	8-719-123-85	s DIODE 1SS304
D704	8-719-123-85	s DIODE 1SS304
E1	1-535-877-22	o CHIP, TP
E201	1-535-877-22	o CHIP, TP
E401	1-535-877-22	o CHIP, TP
E501	1-535-877-22	o CHIP, TP
IC1	8-752-832-86	s CXP80P116-845Q
IC2	8-759-942-44	s IC CXD1128Q
IC3	8-759-209-57	s IC TC4S69F
IC4	8-759-701-01	s IC NJM2904M
IC5	8-759-939-41	s IC S-81230AG-RB
IC6	8-752-330-59	s IC CXK1011P
IC7	8-759-209-90	s IC TC4S71F
IC101	8-759-981-54	s IC RC2041MD
IC102	8-759-710-77	s IC NJM4560MD
IC103	8-759-710-77	s IC NJM4560MD
IC104	8-759-981-58	s IC RC2043MD
IC105	8-759-908-16	s IC TL072CPS
IC201	8-759-981-54	s IC RC2041MD
IC202	8-759-710-77	s IC NJM4560MD

## (TC-60P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
IC205	8-759-908-16	s IC TL072CPS
IC301	8-759-300-71	s IC HD14053BFP
IC303	8-759-981-92	s IC RC4558M
IC304	8-759-100-94	s IC UPC358G2
IC500	8-759-112-06	s IC UPC78N05H
IC501	8-759-209-15	s IC TC4SU69F
IC502	8-759-980-28	s IC RH5VA30CA
IC503	8-759-009-12	s IC MC14071BF
IC504	8-759-209-15	s IC TC4SU69F
IC505	8-759-009-10	s IC MC14069UBF
IC506	8-759-209-90	s IC TC4S71F
IC507	8-759-009-12	s IC MC14071BF
IC508	8-759-939-41	s IC S-81230AG-RB
IC509	8-759-008-82	s IC MC14013BF
IC510	8-759-300-71	s IC HD14053BFP
IC511	8-759-009-51	s IC MC14538BF
IC512	8-759-906-53	s IC TL062CPS
IC513	8-759-939-41	s IC S-81230AG-RB
IC514	8-759-008-36	s IC MC74HC4049F
IC515	8-759-146-73	s IC CXD8042Q-502
IC516	8-759-209-97	s IC TC4S81F
IC517	8-759-008-82	s IC MC14013BF
IC518	8-759-209-54	s IC TC4S01F
IC519	8-759-009-02	s IC MC14046BF
IC520	8-759-944-79	s IC CXD1132Q
IC521	8-759-700-45	s IC NJM4556M-A
IC522	8-759-300-71	s IC HD14053BFP
IC523	8-759-111-56	s IC UPC4572G2
IC524	8-759-300-71	s IC HD14053BFP
IC525	8-759-906-53	s IC TL062CPS
IC526	8-759-300-71	s IC HD14053BFP
IC527	8-759-009-22	s IC MC14094BF
IC528	8-759-209-90	s IC TC4S71F
IC529	8-759-209-90	s IC TC4S71F
IC702	8-759-710-77	s IC NJM4560MD
IC703	8-759-700-50	s IC NJM386M
L101	1-410-380-31	s INDUCTOR, CHIP 8.2uH
L102	1-410-380-31	s INDUCTOR, CHIP 8.2uH
L201	1-410-380-31	s INDUCTOR, CHIP 8.2uH
L202	1-410-380-31	s INDUCTOR, CHIP 8.2uH
L701	1-408-797-11	s INDUCTOR, CHIP 470uH
LCD1	1-807-981-21	s DISPLAY PANEL, LIQUID CRYSTAL
Q2	8-729-905-18	s TRANSISTOR DTC144EU
Q3	8-729-230-49	s TRANSISTOR 2SC2712-YG
Q4	8-729-230-49	s TRANSISTOR 2SC2712-YG
Q5	8-729-905-18	s TRANSISTOR DTC144EU
Q6	8-729-117-32	s TRANSISTOR 2SC4177
Q101	8-729-271-31	s TRANSISTOR 2SC2713G
Q102	8-729-117-32	s TRANSISTOR 2SC4177
Q103	8-729-905-18	s TRANSISTOR DTC144EU
Q104	8-729-117-32	s TRANSISTOR 2SC4177
Q105	8-729-117-32	s TRANSISTOR 2SC4177
Q106	8-729-907-00	s TRANSISTOR DTC114EU
Q107	8-729-117-32	s TRANSISTOR 2SC4177
Q201	8-729-271-31	s TRANSISTOR 2SC2713G
Q202	8-729-117-32	s TRANSISTOR 2SC4177
Q203	8-729-905-18	s TRANSISTOR DTC144EU

## (TC-60P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q204	8-729-117-32	s TRANSISTOR 2SC4177
Q205	8-729-117-32	s TRANSISTOR 2SC4177
Q206	8-729-907-00	s TRANSISTOR DTC114EU
Q207	8-729-117-32	s TRANSISTOR 2SC4177
Q301	8-729-117-32	s TRANSISTOR 2SC4177
Q401	8-729-117-32	s TRANSISTOR 2SC4177
Q501	8-729-106-68	s TRANSISTOR 2SC1615A-GP
Q502	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q503	8-729-905-18	s TRANSISTOR DTC144EU
Q504	8-729-202-62	s TRANSISTOR 2SD1221
Q505	8-729-120-28	s TRANSISTOR 2SC1623
Q506	8-729-118-70	s TRANSISTOR 2SK739-Z
Q507	8-729-109-41	s TRANSISTOR 2SK94-X1
Q508	8-729-905-18	s TRANSISTOR DTC144EU
Q510	8-729-209-07	s TRANSISTOR 2SC4213-B
Q511	8-729-117-32	s TRANSISTOR 2SC4177
Q512	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q702	8-729-117-32	s TRANSISTOR 2SC4177
Q703	8-729-141-48	s TRANSISTOR 2SB624-BV345
Q704	8-729-141-48	s TRANSISTOR 2SB624-BV345
Q705	8-729-905-18	s TRANSISTOR DTC144EU
Q706	8-729-141-75	s TRANSISTOR 2SD596DV345
R1	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R3	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R4	1-216-815-11	s METAL, CHIP 330 5% 1/16W
R5	1-216-839-11	s METAL, CHIP 33K 5% 1/16W
R6	1-216-806-11	s METAL, CHIP 56 5% 1/16W
R7	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R8	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R9	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R10	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R11	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R12	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R13	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R14	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R15	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R16	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R17	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R18	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R19	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R20	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R21	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R22	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R23	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R24	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R25	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R26	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R27	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R28	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R29	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R30	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R31	1-216-826-11	s METAL, CHIP 2.7K 5% 1/16W
R32	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R33	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R34	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R35	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R36	1-216-849-11	s METAL, CHIP 220K 5% 1/16W

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Ref. No. or Q'ty	Part No.	SP Description
R37	1-216-853-11	s METAL, CHIP 470K 5% 1/16W
R38	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R39	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R40	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R41	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R42	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R43	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R44	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R45	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R46	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R47	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R48	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R49	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R50	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R51	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R52	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R53	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R54	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R55	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R56	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R57	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R58	1-216-840-11	s METAL, CHIP 39K 5% 1/16W
R59	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R60	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R61	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R62	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R63	1-216-844-11	s METAL, CHIP 82K 5% 1/16W
R64	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R65	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R66	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R67	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R68	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R69	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R70	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R71	1-216-846-11	s METAL, CHIP 120K 5% 1/16W
R72	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R73	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R74	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R75	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R76	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R77	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R78	1-216-836-11	s METAL, CHIP 18K 5% 1/16W
R79	1-216-835-11	s METAL, CHIP 15K 5% 1/16W
R80	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R81	1-218-295-11	s METAL, CHIP 4.3K 5% 1/16W
R82	1-218-272-11	s METAL, CHIP 5.1K 5% 1/16W
R83	1-216-827-11	s METAL, CHIP 3.3K 5% 1/16W
R84	1-216-827-11	s METAL, CHIP 3.3K 5% 1/16W
R85	1-216-827-11	s METAL, CHIP 3.3K 5% 1/16W
R86	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R87	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R88	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R89	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R90	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R91	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R92	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R93	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R94	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R95	1-216-849-11	s METAL, CHIP 220K 5% 1/16W

## (TC-60P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R96	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R101	1-216-823-11	s METAL, CHIP 1.5K 5% 1/16W
R102	1-216-823-11	s METAL, CHIP 1.5K 5% 1/16W
R103	1-218-698-11	s METAL, CHIP 1.8K 0.50% 1/16W
R104	1-218-698-11	s METAL, CHIP 1.8K 0.50% 1/16W
R105	1-216-823-11	s METAL, CHIP 1.5K 5% 1/16W
R106	1-216-823-11	s METAL, CHIP 1.5K 5% 1/16W
R107	1-218-698-11	s METAL, CHIP 1.8K 0.50% 1/16W
R108	1-218-698-11	s METAL, CHIP 1.8K 0.50% 1/16W
R109	1-216-838-11	s METAL, CHIP 27K 5% 1/16W
R110	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R111	1-218-740-11	s METAL, CHIP 100K 0.50% 1/16W
R112	1-218-740-11	s METAL, CHIP 100K 0.50% 1/16W
R113	1-218-288-11	s METAL, CHIP 300 5% 1/16W
R114	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R115	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R116	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R117	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R118	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R119	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R120	1-218-705-11	s METAL, CHIP 3.6K 0.50% 1/16W
R121	1-218-698-11	s METAL, CHIP 1.8K 0.50% 1/16W
R122	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R123	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R124	1-216-801-11	s METAL, CHIP 22 5% 1/16W
R125	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R126	1-216-836-11	s METAL, CHIP 18K 5% 1/16W
R127	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R128	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R129	1-218-723-11	s METAL, CHIP 20K 0.50% 1/16W
R130	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R131	1-218-698-11	s METAL, CHIP 1.8K 0.50% 1/16W
R132	1-216-826-11	s METAL, CHIP 2.7K 5% 1/16W
R133	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R134	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R135	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R137	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R138	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R139	1-218-723-11	s METAL, CHIP 20K 0.50% 1/16W
R140	1-218-736-11	s METAL, CHIP 68K 0.50% 1/16W
R141	1-216-834-11	s METAL, CHIP 12K 5% 1/16W
R142	1-218-739-11	s METAL, CHIP 91K 0.5% 1/16W
R143	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R144	1-216-847-11	s METAL, CHIP 150K 5% 1/16W
R145	1-218-705-11	s METAL, CHIP 3.6K 0.50% 1/16W
R146	1-218-705-11	s METAL, CHIP 3.6K 0.50% 1/16W
R147	1-218-672-11	s METAL, CHIP 150 0.50% 1/16W
R148	1-218-672-11	s METAL, CHIP 150 0.50% 1/16W
R149	1-216-810-11	s METAL, CHIP 120 5% 1/16W
R151	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R152	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R153	1-216-853-11	s METAL, CHIP 470K 5% 1/16W
R154	1-216-853-11	s METAL, CHIP 470K 5% 1/16W
R201	1-216-823-11	s METAL, CHIP 1.5K 5% 1/16W
R202	1-216-823-11	s METAL, CHIP 1.5K 5% 1/16W
R203	1-218-698-11	s METAL, CHIP 1.8K 0.50% 1/16W
R204	1-218-698-11	s METAL, CHIP 1.8K 0.50% 1/16W
R205	1-216-823-11	s METAL, CHIP 1.5K 5% 1/16W
R206	1-216-823-11	s METAL, CHIP 1.5K 5% 1/16W

## (TC-60P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R207	1-218-698-11	s	METAL, CHIP 1.8K 0.50% 1/16W
R208	1-218-698-11	s	METAL, CHIP 1.8K 0.50% 1/16W
R209	1-216-838-11	s	METAL, CHIP 27K 5% 1/16W
R210	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R211	1-218-740-11	s	METAL, CHIP 100K 0.50% 1/16W
R212	1-218-740-11	s	METAL, CHIP 100K 0.50% 1/16W
R213	1-218-288-11	s	METAL, CHIP 300 5% 1/16W
R214	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R215	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R216	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R217	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R218	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R219	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R220	1-218-705-11	s	METAL, CHIP 3.6K 0.50% 1/16W
R221	1-218-698-11	s	METAL, CHIP 1.8K 0.50% 1/16W
R222	1-218-708-11	s	METAL, CHIP 4.7K 0.50% 1/16W
R223	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R224	1-216-801-11	s	METAL, CHIP 22 5% 1/16W
R225	1-216-817-11	s	METAL, CHIP 470 5% 1/16W
R226	1-216-836-11	s	METAL, CHIP 18K 5% 1/16W
R227	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R228	1-218-716-11	s	METAL, CHIP 10K 0.50% 1/16W
R229	1-218-723-11	s	METAL, CHIP 20K 0.50% 1/16W
R230	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R231	1-218-698-11	s	METAL, CHIP 1.8K 0.50% 1/16W
R232	1-216-826-11	s	METAL, CHIP 2.7K 5% 1/16W
R233	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R234	1-216-849-11	s	METAL, CHIP 220K 5% 1/16W
R235	1-216-817-11	s	METAL, CHIP 470 5% 1/16W
R237	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R239	1-218-723-11	s	METAL, CHIP 20K 0.50% 1/16W
R240	1-218-736-11	s	METAL, CHIP 68K 0.50% 1/16W
R241	1-216-834-11	s	METAL, CHIP 12K 5% 1/16W
R242	1-218-739-11	s	METAL, CHIP 91K 0.5% 1/16W
R243	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R244	1-216-847-11	s	METAL, CHIP 150K 5% 1/16W
R245	1-218-705-11	s	METAL, CHIP 3.6K 0.50% 1/16W
R246	1-218-705-11	s	METAL, CHIP 3.6K 0.50% 1/16W
R247	1-218-672-11	s	METAL, CHIP 150 0.50% 1/16W
R248	1-218-672-11	s	METAL, CHIP 150 0.50% 1/16W
R249	1-216-810-11	s	METAL, CHIP 120 5% 1/16W
R251	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R252	1-216-809-11	s	METAL, CHIP 100 5% 1/16W
R253	1-216-853-11	s	METAL, CHIP 470K 5% 1/16W
R254	1-216-853-11	s	METAL, CHIP 470K 5% 1/16W
R301	1-218-716-11	s	METAL, CHIP 10K 0.50% 1/16W
R302	1-218-716-11	s	METAL, CHIP 10K 0.50% 1/16W
R303	1-216-817-11	s	METAL, CHIP 470 5% 1/16W
R305	1-216-836-11	s	METAL, CHIP 18K 5% 1/16W
R306	1-216-836-11	s	METAL, CHIP 18K 5% 1/16W
R308	1-216-795-11	s	METAL, CHIP 6.8K 0.50% 1/16W
R309	1-218-706-11	s	METAL, CHIP 3.9K 0.50% 1/16W
R310	1-216-838-11	s	METAL, CHIP 27K 5% 1/16W
R311	1-218-720-11	s	METAL, CHIP 15K 0.50% 1/16W
R312	1-218-668-11	s	METAL, CHIP 100 0.50% 1/16W
R313	1-218-714-11	s	METAL, CHIP 8.2K 0.50% 1/16W
R315	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R317	1-218-738-11	s	METAL, CHIP 82K 0.5% 1/16W
R318	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W

## (TC-60P BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R319	1-218-724-11	s	METAL, CHIP 22K 0.50% 1/16W
R320	1-216-827-11	s	METAL, CHIP 3.3K 5% 1/16W
R401	1-218-716-11	s	METAL, CHIP 10K 0.50% 1/16W
R402	1-218-716-11	s	METAL, CHIP 10K 0.50% 1/16W
R403	1-216-817-11	s	METAL, CHIP 470 5% 1/16W
R405	1-216-836-11	s	METAL, CHIP 18K 5% 1/16W
R406	1-216-836-11	s	METAL, CHIP 18K 5% 1/16W
R408	1-216-795-11	s	METAL, CHIP 6.8K 0.50% 1/16W
R409	1-218-706-11	s	METAL, CHIP 3.9K 0.50% 1/16W
R410	1-216-838-11	s	METAL, CHIP 27K 5% 1/16W
R411	1-218-720-11	s	METAL, CHIP 15K 0.50% 1/16W
R412	1-218-668-11	s	METAL, CHIP 100 0.50% 1/16W
R413	1-218-714-11	s	METAL, CHIP 8.2K 0.50% 1/16W
R415	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R417	1-218-738-11	s	METAL, CHIP 82K 0.5% 1/16W
R418	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R419	1-218-724-11	s	METAL, CHIP 22K 0.50% 1/16W
R420	1-216-827-11	s	METAL, CHIP 3.3K 5% 1/16W
R500	1-216-849-11	s	METAL, CHIP 220K 5% 1/16W
R501	1-216-845-11	s	METAL, CHIP 100K 5% 1/16W
R502	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R503	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R504	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R505	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R506	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R507	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R508	1-216-805-11	s	METAL, CHIP 47 5% 1/16W
R509	1-216-849-11	s	METAL, CHIP 220K 5% 1/16W
R510	1-216-849-11	s	METAL, CHIP 220K 5% 1/16W
R511	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R512	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R513	1-216-847-11	s	METAL, CHIP 150K 5% 1/16W
R514	1-216-801-11	s	METAL, CHIP 22 5% 1/16W
R515	1-216-863-11	s	METAL, CHIP 3.3M 5% 1/16W
R516	1-216-863-11	s	METAL, CHIP 3.3M 5% 1/16W
R517	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R518	1-216-801-11	s	METAL, CHIP 22 5% 1/16W
R519	1-216-801-11	s	METAL, CHIP 22 5% 1/16W
R520	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R521	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R522	1-216-851-11	s	METAL, CHIP 330K 5% 1/16W
R523	1-216-833-11	s	METAL, CHIP 10K 5% 1/16W
R524	1-216-849-11	s	METAL, CHIP 220K 5% 1/16W
R525	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R526	1-216-829-11	s	METAL, CHIP 4.7K 5% 1/16W
R527	1-216-849-11	s	METAL, CHIP 220K 5% 1/16W
R528	1-216-849-11	s	METAL, CHIP 220K 5% 1/16W
R529	1-216-847-11	s	METAL, CHIP 150K 5% 1/16W
R530	1-216-849-11	s	METAL, CHIP 220K 5% 1/16W
R531	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R532	1-216-851-11	s	METAL, CHIP 330K 5% 1/16W
R533	1-216-827-11	s	METAL, CHIP 3.3K 5% 1/16W
R534	1-216-841-11	s	METAL, CHIP 47K 5% 1/16W
R535	1-216-793-11	s	METAL, CHIP 4.7 5% 1/16W
R536	1-216-843-11	s	METAL, CHIP 68K 5% 1/16W
R537	1-216-843-11	s	METAL, CHIP 68K 5% 1/16W
R538	1-216-857-11	s	METAL, CHIP 1M 5% 1/16W
R539	1-216-849-11	s	METAL, CHIP 220K 5% 1/16W
R540	1-216-849-11	s	METAL, CHIP 220K 5% 1/16W

## (TC-60P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R541	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R550	1-216-801-11	s METAL, CHIP 22 5% 1/16W
R551	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R552	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R554	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R555	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R559	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R560	1-216-851-11	s METAL, CHIP 330K 5% 1/16W
R561	1-216-838-11	s METAL, CHIP 27K 5% 1/16W
R562	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R563	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R564	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R565	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R566	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R567	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R568	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R569	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R570	1-216-861-11	s METAL, CHIP 2.2M 5% 1/16W
R571	1-216-843-11	s METAL, CHIP 68K 5% 1/16W
R573	1-216-847-11	s METAL, CHIP 150K 5% 1/16W
R574	1-216-839-11	s METAL, CHIP 33K 5% 1/16W
R575	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R576	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R577	1-216-843-11	s METAL, CHIP 68K 5% 1/16W
R578	1-216-853-11	s METAL, CHIP 470K 5% 1/16W
R579	1-216-863-11	s METAL, CHIP 3.3M 5% 1/16W
R580	1-216-853-11	s METAL, CHIP 470K 5% 1/16W
R581	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R582	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R583	1-216-818-11	s METAL, CHIP 560 5% 1/16W
R584	1-216-861-11	s METAL, CHIP 2.2M 5% 1/16W
R585	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R586	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R587	1-216-851-11	s METAL, CHIP 330K 5% 1/16W
R588	1-218-727-11	s METAL, CHIP 30K 0.50% 1/16W
R589	1-216-835-11	s METAL, CHIP 15K 5% 1/16W
R590	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R591	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R592	1-216-831-11	s METAL, CHIP 6.8K 5% 1/16W
R593	1-216-865-11	s METAL, CHIP 3K 5% 1/16W
R594	1-216-830-11	s METAL, CHIP 5.6K 5% 1/16W
R595	1-216-850-11	s METAL, CHIP 270K 5% 1/16W
R596	1-216-823-11	s METAL, CHIP 1.5K 5% 1/16W
R597	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R598	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R599	1-216-850-11	s METAL, CHIP 270K 5% 1/16W
R600	1-218-285-11	s METAL, CHIP 75 5% 1/16W
R601	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R602	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R603	1-216-826-11	s METAL, CHIP 2.7K 5% 1/16W
R604	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R605	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R606	1-216-853-11	s METAL, CHIP 470K 5% 1/16W
R607	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R608	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R609	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R610	1-216-811-11	s METAL, CHIP 150 5% 1/16W
R611	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R612	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W

## (TC-60P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R613	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R614	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R615	1-216-853-11	s METAL, CHIP 470K 5% 1/16W
R616	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R617	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R618	1-216-839-11	s METAL, CHIP 33K 5% 1/16W
R619	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R620	1-216-824-11	s METAL, CHIP 1.8K 5% 1/16W
R621	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R622	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R623	1-216-797-11	s METAL, CHIP 10 5% 1/16W
R624	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R625	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R626	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R630	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R631	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R633	1-216-806-11	s METAL, CHIP 56 5% 1/16W
R634	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R635	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R636	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R637	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R638	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R639	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R640	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R641	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R642	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R643	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R644	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R645	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R646	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R647	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R648	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R649	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R650	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R651	1-218-738-11	s METAL, CHIP 82K 0.5% 1/16W
R700	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R701	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R702	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R703	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R704	1-216-838-11	s METAL, CHIP 27K 5% 1/16W
R705	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R706	1-216-847-11	s METAL, CHIP 150K 5% 1/16W
R707	1-216-851-11	s METAL, CHIP 330K 5% 1/16W
R708	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R709	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R710	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R711	1-216-810-11	s METAL, CHIP 120 5% 1/16W
R714	1-216-826-11	s METAL, CHIP 2.7K 5% 1/16W
R715	1-218-704-11	s METAL, CHIP 3.3K 0.50% 1/16W
R716	1-218-704-11	s METAL, CHIP 3.3K 0.50% 1/16W
R717	1-216-826-11	s METAL, CHIP 2.7K 5% 1/16W
R718	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R719	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R721	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R726	1-218-344-11	s METAL, CHIP 7.5K 0.50% 1/16W
R728	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R729	1-216-797-11	s METAL, CHIP 10 5% 1/16W
R730	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R737	1-216-812-11	s METAL, CHIP 180 5% 1/16W



## (TC-60P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R738	1-216-812-11	s METAL, CHIP 180 5% 1/16W
R739	1-216-812-11	s METAL, CHIP 180 5% 1/16W
R740	1-216-812-11	s METAL, CHIP 180 5% 1/16W
R741	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R742	1-216-836-11	s METAL, CHIP 18K 5% 1/16W
R743	1-218-671-11	s METAL, CHIP 130 0.50% 1/16W
R744	1-216-839-11	s METAL, CHIP 33K 5% 1/16W
R745	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R746	1-216-834-11	s METAL, CHIP 12K 5% 1/16W
R747	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
RV01	1-237-038-11	s RES, ADJ, METAL 50K
RV302	1-228-476-00	s RES, ADJ, METAL 50K
RV402	1-228-476-00	s RES, ADJ, METAL 50K
RV700	1-237-035-11	s RES, ADJ, METAL 5K
RV701	1-237-039-11	s RES, ADJ, METAL 100K
RV704	1-228-471-00	s RES, ADJ, METAL 1K
S3	1-570-832-11	s SWITCH, SLIDE
S4	1-570-832-11	s SWITCH, SLIDE
S5	1-554-303-21	s SWITCH, TACTILE
S8	1-554-303-21	s SWITCH, TACTILE
S9	1-554-303-21	s SWITCH, TACTILE
S10	1-554-303-21	s SWITCH, TACTILE
S12	1-570-839-11	s SWITCH, SLIDE
S13	1-554-303-21	s SWITCH, TACTILE
S14	1-554-303-21	s SWITCH, TACTILE
S15	1-570-839-11	s SWITCH, SLIDE
S16	1-571-275-11	s SWITCH, SLIDE
S101	1-571-087-11	s SWITCH, SLIDE
S102	1-570-842-11	s SWITCH, SLIDE
S103	1-571-275-11	s SWITCH, SLIDE
S201	1-571-087-11	s SWITCH, SLIDE
S202	1-570-842-11	s SWITCH, SLIDE
S203	1-571-275-11	s SWITCH, SLIDE
S509	1-554-303-21	s SWITCH, TACTILE
S701	1-570-855-11	s SWITCH, SLIDE
TP1	1-535-877-22	o CHIP, TP
TP2	1-535-877-22	o CHIP, TP
TP3	1-535-877-22	o CHIP, TP
TP4	1-535-877-22	o CHIP, TP
TP5	1-535-877-22	o CHIP, TP
TP6	1-535-877-22	o CHIP, TP
TP7	1-535-877-22	o CHIP, TP
TP8	1-535-877-22	o CHIP, TP
TP9	1-535-877-22	o CHIP, TP
TP10	1-535-877-22	o CHIP, TP
TP11	1-535-877-22	o CHIP, TP
TP12	1-535-877-22	o CHIP, TP
TP13	1-535-877-22	o CHIP, TP
TP14	1-535-877-22	o CHIP, TP
TP15	1-535-877-22	o CHIP, TP
TP16	1-535-877-22	o CHIP, TP
TP101	1-535-877-22	o CHIP, TP
TP201	1-535-877-22	o CHIP, TP
TP301	1-535-877-22	o CHIP, TP
TP401	1-535-877-22	o CHIP, TP
X01	1-567-812-11	s RESONATOR, CERAMIC 12.288MHz
X02	1-578-741-11	s CRYSTAL, 31.25 KHz

## (TC-60P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
X03	1-567-867-11	s CRYSTAL, 14.500MHz
X504	1-577-076-11	s CRYSTAL, 16.000MHz

VO-34P BOARD

Ref. No. or Q'ty	Part No.	SP Description
lpc	A-6727-373-A	o MOUNTED CIRCUIT BOARD, VO-34P
C100	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C101	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C102	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C103	1-162-915-11	s CERAMIC, CHIP 10PF 50V
C104	1-162-921-11	s CERAMIC, CHIP 33PF 5% 50V
C105	1-162-919-11	s CERAMIC, CHIP 22PF 5% 50V
C106	1-162-919-11	s CERAMIC, CHIP 22PF 5% 50V
C107	1-162-921-11	s CERAMIC, CHIP 33PF 5% 50V
C108	1-162-921-11	s CERAMIC, CHIP 33PF 5% 50V
C109	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C110	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C111	1-164-182-11	s CERAMIC CHIP 3300PF 10% 100V
C112	1-164-232-11	s CERAMIC 0.01uF 10% 100V
C114	1-109-540-00	s MICA 180PF 5% 100V
C115	1-162-908-11	s CERAMIC, CHIP 3PF 50V
C116	1-162-922-11	s CERAMIC, CHIP 39PF 5% 50V
C117	1-162-905-11	s CERAMIC, CHIP 1PF 50V
C118	1-164-232-11	s CERAMIC 0.01uF 10% 100V
C119	1-135-167-21	s TANTALUM, CHIP 68uF 10% 6.3V
C120	1-135-157-21	s TANTALUM 10uF 10% 6.3V
C121	1-164-232-11	s CERAMIC 0.01uF 10% 100V
C122	1-164-232-11	s CERAMIC 0.01uF 10% 100V
C123	1-164-232-11	s CERAMIC 0.01uF 10% 100V
C124	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C125	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C126	1-164-232-11	s CERAMIC 0.01uF 10% 100V
C130	1-162-923-11	s CERAMIC, CHIP 47PF 5% 50V
C150	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C151	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C152	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C153	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C154	1-162-905-11	s CERAMIC, CHIP 1PF 50V
C155	1-162-920-11	s CERAMIC, CHIP 27PF 5% 50V
C156	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C157	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C158	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C160	1-162-921-11	s CERAMIC, CHIP 33PF 5% 50V
C161	1-164-232-11	s CERAMIC 0.01uF 10% 100V
C162	1-164-232-11	s CERAMIC 0.01uF 10% 100V
C163	1-164-232-11	s CERAMIC 0.01uF 10% 100V
C200	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C201	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C202	1-162-637-11	s CERAMIC, CHIP 0.47uF 16V
C203	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C204	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C205	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C206	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C207	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C208	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C209	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C210	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C211	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C212	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C213	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C214	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C215	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C216	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V

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Ref. No. or Q'ty	Part No.	SP Description
C217	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C218	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C219	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C220	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C300	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C301	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C302	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C303	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C304	1-162-920-11	s CERAMIC, CHIP 27PF 5% 50V
C305	1-162-919-11	s CERAMIC, CHIP 22PF 5% 50V
C306	1-135-177-21	s TANTALUM, CHIP 1uF 10% 25V
C307	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C350	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C351	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C352	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C353	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C354	1-162-920-11	s CERAMIC, CHIP 27PF 5% 50V
C355	1-162-919-11	s CERAMIC, CHIP 22PF 5% 50V
C356	1-135-177-21	s TANTALUM, CHIP 1uF 10% 25V
C357	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C401	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C402	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C403	1-162-919-11	s CERAMIC, CHIP 22PF 5% 50V
C404	1-162-919-11	s CERAMIC, CHIP 22PF 5% 50V
C405	1-162-923-11	s CERAMIC, CHIP 47PF 5% 50V
C406	1-162-921-11	s CERAMIC, CHIP 33PF 5% 50V
C407	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C408	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C409	1-135-157-21	s TANTALUM 10uF 10% 6.3V
C410	1-162-959-11	s CERAMIC, CHIP 330PF 5% 50V
C411	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V
C412	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C413	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C414	1-164-315-11	s CERAMIC, CHIP 470PF 10% 50V
C415	1-162-917-11	s CERAMIC, CHIP 15PF 5% 50V
C416	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C417	1-162-923-11	s CERAMIC, CHIP 47PF 5% 50V
C418	1-162-919-11	s CERAMIC, CHIP 22PF 5% 50V
C419	1-162-919-11	s CERAMIC, CHIP 22PF 5% 50V
C420	1-162-923-11	s CERAMIC, CHIP 47PF 5% 50V
C421	1-162-923-11	s CERAMIC, CHIP 47PF 5% 50V
C422	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C450	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C451	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C452	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C453	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C454	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C455	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C456	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C457	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C458	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C459	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C460	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C461	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C462	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C463	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C464	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C465	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C466	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V

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Ref. No. or Q'ty	Part No.	SP Description
C467	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C468	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C469	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C500	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C501	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C502	1-162-911-11	s CERAMIC, CHIP 6PF 50V
C503	1-162-911-11	s CERAMIC, CHIP 6PF 50V
C504	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C505	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C506	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C507	1-164-182-11	s CERAMIC CHIP 3300PF 10% 100V
C508	1-164-232-11	s CERAMIC 0.01uF 10% 100V
C509	1-164-232-11	s CERAMIC 0.01uF 10% 100V
C510	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C512	1-109-540-00	s MICA 180PF 5% 100V
C513	1-162-905-11	s CERAMIC, CHIP 1PF 50V
C515	1-135-167-21	s TANTALUM, CHIP 68uF 10% 6.3V
C516	1-162-919-11	s CERAMIC, CHIP 22PF 5% 50V
C517	1-162-925-11	s CERAMIC, CHIP 68PF 5% 50V
C518	1-164-232-11	s CERAMIC 0.01uF 10% 100V
C519	1-162-921-11	s CERAMIC, CHIP 33PF 5% 50V
C520	1-135-157-21	s TANTALUM 10uF 10% 6.3V
C521	1-164-232-11	s CERAMIC 0.01uF 10% 100V
C522	1-164-232-11	s CERAMIC 0.01uF 10% 100V
C523	1-164-232-11	s CERAMIC 0.01uF 10% 100V
C524	1-164-232-11	s CERAMIC 0.01uF 10% 100V
C525	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C526	1-164-232-11	s CERAMIC 0.01uF 10% 100V
C527	1-164-232-11	s CERAMIC 0.01uF 10% 100V
C528	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C529	1-164-232-11	s CERAMIC 0.01uF 10% 100V
C560	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C561	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C562	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C563	1-162-957-11	s CERAMIC, CHIP 220PF 5% 50V
C564	1-164-315-11	s CERAMIC, CHIP 470PF 10% 50V
C565	1-164-232-11	s CERAMIC 0.01uF 10% 100V
C566	1-164-315-11	s CERAMIC, CHIP 470PF 10% 50V
C567	1-164-315-11	s CERAMIC, CHIP 470PF 10% 50V
C568	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C569	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V
C570	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V
C571	1-164-232-11	s CERAMIC 0.01uF 10% 100V
C572	1-164-217-11	s CERAMIC, CHIP 150PF 5% 50V
C573	1-164-217-11	s CERAMIC, CHIP 150PF 5% 50V
C600	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C601	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C602	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C603	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C604	1-162-637-11	s CERAMIC, CHIP 0.47uF 16V
C605	1-164-473-11	s CERAMIC, CHIP 820PF 5% 50V
C606	1-164-473-11	s CERAMIC, CHIP 820PF 5% 50V
C607	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C608	1-162-637-11	s CERAMIC, CHIP 0.47uF 16V
C609	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C610	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C611	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C612	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C613	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V

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Ref. No. or Q'ty	Part No.	SP Description
C614	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C615	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C616	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C617	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C618	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C619	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C620	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C621	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C622	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C623	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C624	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C627	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C628	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C700	1-162-915-11	s CERAMIC, CHIP 10PF 50V
C701	1-162-915-11	s CERAMIC, CHIP 10PF 50V
C702	1-126-396-11	s ELECT, CHIP 47uF 20% 16V
C703	1-126-396-11	s ELECT, CHIP 47uF 20% 16V
C704	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C705	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C706	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C707	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C708	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C709	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C710	1-164-232-11	s CERAMIC 0.01uF 10% 100V
C711	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C712	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C713	1-164-217-11	s CERAMIC, CHIP 150PF 5% 50V
C714	1-164-217-11	s CERAMIC, CHIP 150PF 5% 50V
C724	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C725	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C726	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C727	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C728	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C750	1-162-915-11	s CERAMIC, CHIP 10PF 50V
C751	1-162-915-11	s CERAMIC, CHIP 10PF 50V
C752	1-126-396-11	s ELECT, CHIP 47uF 20% 16V
C753	1-126-396-11	s ELECT, CHIP 47uF 20% 16V
C754	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C755	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C756	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C757	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C758	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C759	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C760	1-164-232-11	s CERAMIC 0.01uF 10% 100V
C761	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C762	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C763	1-162-919-11	s CERAMIC, CHIP 22PF 5% 50V
C764	1-162-919-11	s CERAMIC, CHIP 22PF 5% 50V
C765	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C800	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C801	1-162-957-11	s CERAMIC, CHIP 220PF 5% 50V
C802	1-162-915-11	s CERAMIC, CHIP 10PF 50V
C803	1-162-923-11	s CERAMIC, CHIP 47PF 5% 50V
C804	1-162-917-11	s CERAMIC, CHIP 15PF 5% 50V
C805	1-162-917-11	s CERAMIC, CHIP 15PF 5% 50V
C806	1-135-161-21	s TANTALUM, CHIP 22uF 10% 10V
C807	1-135-161-21	s TANTALUM, CHIP 22uF 10% 10V
C808	1-135-155-21	s TANTALUM, CHIP 4.7uF 10% 16V
C809	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V

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Ref. No. or Q'ty	Part No.	SP Description
C810	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V
C811	1-164-232-11	s CERAMIC, 0.01uF 10% 100V
C812	1-162-915-11	s CERAMIC, CHIP 10PF 50V
C813	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V
C814	1-164-232-11	s CERAMIC 0.01uF 10% 100V
C815	1-135-177-21	s TANTALUM, CHIP 1uF 10% 25V
C816	1-162-959-11	s CERAMIC, CHIP 330PF 5% 50V
C817	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C818	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C819	1-163-134-00	s CERAMIC 510PF 5% 50V
C820	1-164-217-11	s CERAMIC, CHIP 150PF 5% 50V
C821	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C822	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C823	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C824	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V
C825	1-164-217-11	s CERAMIC, CHIP 150PF 5% 50V
C826	1-162-957-11	s CERAMIC, CHIP 220PF 5% 50V
C827	1-162-920-11	s CERAMIC, CHIP 27PF 5% 50V
C828	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C829	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C830	1-162-917-11	s CERAMIC, CHIP 15PF 5% 50V
C831	1-135-161-21	s TANTALUM, CHIP 22uF 10% 10V
C833	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C834	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C835	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C850	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C851	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C852	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C853	1-162-919-11	s CERAMIC, CHIP 22PF 5% 50V
C854	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C856	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C857	1-164-232-11	s CERAMIC 0.01uF 10% 100V
C858	1-162-959-11	s CERAMIC, CHIP 330PF 5% 50V
C859	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C860	1-135-161-21	s TANTALUM, CHIP 22uF 10% 10V
C861	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C862	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C863	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C864	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C900	1-126-396-11	s ELECT, CHIP 47uF 20% 16V
C901	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C902	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
CN1	1-568-091-11	o CONNECTOR, 16P, MALE
CN2	1-568-093-11	s CONNECTOR, 20P, MALE
CN3	1-506-468-11	s CONNECTOR, 3P, MALE
CN4	1-506-468-11	s CONNECTOR, 3P, MALE
CN5	1-506-468-11	s CONNECTOR, 3P, MALE
CN6	1-506-468-11	s CONNECTOR, 3P, MALE
CN7	1-506-468-11	s CONNECTOR, 3P, MALE
CN8	1-506-471-11	s CONNECTOR, 6P, MALE
D400	8-719-821-39	s DIODE 1SV160
D402	8-719-941-23	s DIODE DA204U
D800	8-719-123-85	s DIODE 1SS304
D801	8-719-123-85	s DIODE 1SS304
D850	8-719-123-85	s DIODE 1SS304
D851	8-719-123-85	s DIODE 1SS304
D900	8-719-105-82	s DIODE RD5.1M-B2
D901	8-719-123-82	s DIODE 1SS303

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Ref. No. or Q'ty	Part No.	SP Description
D902	8-719-123-85	s DIODE 1SS304
E100	1-535-877-22	o CHIP, TP
E200	1-535-877-22	o CHIP, TP
E300	1-535-877-22	o CHIP, TP
E400	1-535-877-22	o CHIP, TP
E450	1-535-877-22	o CHIP, TP
E500	1-535-877-22	o CHIP, TP
E600	1-535-877-22	o CHIP, TP
FL100	1-236-019-21	s FILTER, LOW PASS (CHIP)
FL300	1-239-313-11	s FILTER, LOW PASS
FL350	1-239-313-11	s FILTER, LOW PASS
FL500	1-239-314-11	s FILTER, LOW PASS
FL501	1-236-021-21	s FILTER, LOW PASS (CHIP)
IC100	8-752-036-77	s IC CXA1179N
IC150	8-752-052-76	s IC CXA1480Q
IC400	8-752-344-95	s IC CXD2215Q
IC401	8-759-239-58	s IC TC74HC221AF
IC402	8-759-008-67	s IC MC14066BF
IC403	8-759-030-16	s IC MC34182M
IC404	8-759-100-94	s IC UPC358G2
IC405	8-759-243-19	s IC TC7SU04F
IC406	8-759-243-19	s IC TC7SU04F
IC407	8-759-239-58	s IC TC74HC221AF
IC408	8-759-239-58	s IC TC74HC221AF
IC409	8-759-243-19	s IC TC7SU04F
IC410	8-759-209-97	s IC TC4S81F
IC450	8-752-334-55	s IC CXD1175M
IC451	8-752-334-55	s IC CXD1175M
IC452	8-752-329-28	s IC CXD1151Q
IC453	8-752-352-34	s IC CXD1171M-1
IC500	8-752-063-07	s IC CXA1179N
IC560	8-759-209-15	s IC TC4SU69F
IC561	8-759-209-15	s IC TC4SU69F
IC700	1-809-458-11	s HIC (PRE-AMP)
IC701	1-809-458-11	s HIC (PRE-AMP)
IC702	8-759-230-99	s IC TC74HC4053AF
IC750	1-809-458-11	s HIC (PRE-AMP)
IC751	1-809-458-11	s HIC (PRE-AMP)
IC752	8-759-230-99	s IC TC74HC4053AF
IC800	8-759-230-99	s IC TC74HC4053AF
IC801	8-752-002-99	s IC CX20030
IC802	8-759-009-51	s IC MC14538BF
IC850	8-752-052-73	s IC CXA1451M
IC900	8-759-209-15	s IC TC4SU69F
IC901	8-759-300-71	s IC HD14053BFP
IC902	8-759-209-90	s IC TC4S71F
IC903	8-759-209-90	s IC TC4S71F
IC904	8-759-300-71	s IC HD14053BFP
L100	1-408-789-21	s INDUCTOR, CHIP 100UH
L101	1-408-789-21	s INDUCTOR, CHIP 100UH
L102	1-408-793-21	s INDUCTOR, CHIP 220UH
L103	1-408-779-31	s INDUCTOR, CHIP 15uH
L104	1-408-789-21	s INDUCTOR, CHIP 100UH
L150	1-408-785-21	s INDUCTOR, CHIP 47UH
L200	1-408-789-21	s INDUCTOR, CHIP 100UH
L201	1-408-789-21	s INDUCTOR, CHIP 100UH
L202	1-408-785-21	s INDUCTOR, CHIP 47UH
L203	1-408-785-21	s INDUCTOR, CHIP 47UH

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Ref. No. or Q'ty	Part No.	SP Description
L204	1-408-785-21	s INDUCTOR, CHIP 47UH
L205	1-408-785-21	s INDUCTOR, CHIP 47UH
L300	1-408-789-21	s INDUCTOR, CHIP 100UH
L301	1-408-789-21	s INDUCTOR, CHIP 100UH
L302	1-408-773-31	s INDUCTOR, CHIP 4.7uH
L350	1-408-789-21	s INDUCTOR, CHIP 100UH
L351	1-408-789-21	s INDUCTOR, CHIP 100UH
L352	1-408-773-31	s INDUCTOR, CHIP 4.7uH
L400	1-408-789-21	s INDUCTOR, CHIP 100UH
L401	1-408-789-21	s INDUCTOR, CHIP 100UH
L450	1-408-789-21	s INDUCTOR, CHIP 100UH
L451	1-408-789-21	s INDUCTOR, CHIP 100UH
L500	1-408-789-21	s INDUCTOR, CHIP 100UH
L501	1-408-789-21	s INDUCTOR, CHIP 100UH
L502	1-408-785-21	s INDUCTOR, CHIP 47UH
L503	1-408-789-21	s INDUCTOR, CHIP 100UH
L560	1-408-789-21	s INDUCTOR, CHIP 100UH
L561	1-408-789-21	s INDUCTOR, CHIP 100UH
L562	1-408-797-11	s INDUCTOR, CHIP 470UH
L563	1-408-797-11	s INDUCTOR, CHIP 470UH
L600	1-408-789-21	s INDUCTOR, CHIP 100UH
L601	1-408-789-21	s INDUCTOR, CHIP 100UH
L602	1-408-793-21	s INDUCTOR, CHIP 220UH
L603	1-408-785-21	s INDUCTOR, CHIP 47UH
L604	1-408-785-21	s INDUCTOR, CHIP 47UH
L605	1-408-785-21	s INDUCTOR, CHIP 47UH
L606	1-408-785-21	s INDUCTOR, CHIP 47UH
L700	1-408-789-21	s INDUCTOR, CHIP 100UH
L701	1-408-789-21	s INDUCTOR, CHIP 100UH
L750	1-408-789-21	s INDUCTOR, CHIP 100UH
L751	1-408-789-21	s INDUCTOR, CHIP 100UH
L800	1-408-789-21	s INDUCTOR, CHIP 100UH
L801	1-408-789-21	s INDUCTOR, CHIP 100UH
L802	1-408-781-00	s INDUCTOR, CHIP 22UH
L803	1-408-794-00	s INDUCTOR, CHIP 270UH
L850	1-408-789-21	s INDUCTOR, CHIP 100UH
L851	1-408-778-21	s INDUCTOR, CHIP 12uH
L900	1-408-789-21	s INDUCTOR, CHIP 100UH
L901	1-412-533-11	s INDUCTOR 47uH
L902	1-412-533-11	s INDUCTOR 47uH
LV400	1-412-018-11	s COIL, VAR 5.6uH
Q100	8-729-117-32	s TRANSISTOR 2SC4177
Q101	8-729-117-32	s TRANSISTOR 2SC4177
Q102	8-729-117-32	s TRANSISTOR 2SC4177
Q103	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q104	8-729-117-32	s TRANSISTOR 2SC4177
Q105	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q106	8-729-905-18	s TRANSISTOR DTC144EU
Q107	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q150	8-729-117-32	s TRANSISTOR 2SC4177
Q151	8-729-117-32	s TRANSISTOR 2SC4177
Q152	8-729-117-32	s TRANSISTOR 2SC4177
Q153	8-729-117-32	s TRANSISTOR 2SC4177
Q154	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q155	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q200	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q201	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q202	8-729-117-73	s TRANSISTOR 2SC4178-F14

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Ref. No. or Q'ty	Part No.	SP Description
Q203	8-729-209-07	s TRANSISTOR 2SC4213-B
Q204	8-729-209-07	s TRANSISTOR 2SC4213-B
Q205	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q206	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q207	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q208	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q209	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q210	8-729-117-32	s TRANSISTOR 2SC4177
Q211	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q212	8-729-117-32	s TRANSISTOR 2SC4177
Q213	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q214	8-729-209-07	s TRANSISTOR 2SC4213-B
Q215	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q216	8-729-209-07	s TRANSISTOR 2SC4213-B
Q217	8-729-112-65	s TRANSISTOR 2SA1462-Y33
Q218	8-729-140-47	s TRANSISTOR 2SC3735-B34
Q219	8-729-112-65	s TRANSISTOR 2SA1462-Y33
Q220	8-729-140-47	s TRANSISTOR 2SC3735-B34
Q221	8-729-209-07	s TRANSISTOR 2SC4213-B
Q222	8-729-209-07	s TRANSISTOR 2SC4213-B
Q223	8-729-209-07	s TRANSISTOR 2SC4213-B
Q224	8-729-209-07	s TRANSISTOR 2SC4213-B
Q225	8-729-209-07	s TRANSISTOR 2SC4213-B
Q226	8-729-209-07	s TRANSISTOR 2SC4213-B
Q300	8-729-117-32	s TRANSISTOR 2SC4177
Q301	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q302	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q303	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q304	8-729-117-32	s TRANSISTOR 2SC4177
Q305	8-729-422-44	s TRANSISTOR 2SK663
Q306	8-729-117-32	s TRANSISTOR 2SC4177
Q307	8-729-117-32	s TRANSISTOR 2SC4177
Q350	8-729-117-32	s TRANSISTOR 2SC4177
Q351	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q352	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q353	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q354	8-729-117-32	s TRANSISTOR 2SC4177
Q355	8-729-422-44	s TRANSISTOR 2SK663
Q356	8-729-117-32	s TRANSISTOR 2SC4177
Q357	8-729-117-32	s TRANSISTOR 2SC4177
Q400	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q401	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q500	8-729-117-32	s TRANSISTOR 2SC4177
Q501	8-729-117-32	s TRANSISTOR 2SC4177
Q502	8-729-117-32	s TRANSISTOR 2SC4177
Q503	8-729-117-32	s TRANSISTOR 2SC4177
Q504	8-729-117-32	s TRANSISTOR 2SC4177
Q505	8-729-117-32	s TRANSISTOR 2SC4177
Q506	8-729-905-18	s TRANSISTOR DTC144EU
Q507	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q508	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q509	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q510	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q511	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q560	8-729-117-32	s TRANSISTOR 2SC4177
Q561	8-729-117-32	s TRANSISTOR 2SC4177
Q562	8-729-117-32	s TRANSISTOR 2SC4177
Q563	8-729-117-32	s TRANSISTOR 2SC4177
Q600	8-729-117-73	s TRANSISTOR 2SC4178-F14



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Ref. No. or Q'ty	Part No.	SP Description
Q601	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q602	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q603	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q604	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q605	8-729-209-07	s TRANSISTOR 2SC4213-B
Q606	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q607	8-729-209-07	s TRANSISTOR 2SC4213-B
Q608	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q609	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q610	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q611	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q612	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q613	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q614	8-729-117-32	s TRANSISTOR 2SC4177
Q615	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q616	8-729-117-32	s TRANSISTOR 2SC4177
Q617	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q618	8-729-209-07	s TRANSISTOR 2SC4213-B
Q619	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q620	8-729-209-07	s TRANSISTOR 2SC4213-B
Q621	8-729-112-65	s TRANSISTOR 2SA1462-Y33
Q622	8-729-140-47	s TRANSISTOR 2SC3735-B34
Q623	8-729-112-65	s TRANSISTOR 2SA1462-Y33
Q624	8-729-140-47	s TRANSISTOR 2SC3735-B34
Q625	8-729-209-07	s TRANSISTOR 2SC4213-B
Q626	8-729-209-07	s TRANSISTOR 2SC4213-B
Q627	8-729-209-07	s TRANSISTOR 2SC4213-B
Q628	8-729-209-07	s TRANSISTOR 2SC4213-B
Q629	8-729-209-07	s TRANSISTOR 2SC4213-B
Q630	8-729-209-07	s TRANSISTOR 2SC4213-B
Q700	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q701	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q702	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q703	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q704	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q705	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q706	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q707	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q750	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q751	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q752	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q753	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q754	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q755	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q756	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q757	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q800	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q801	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q802	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q803	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q804	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q805	8-729-905-12	s TRANSISTOR DTA144EU
Q806	8-729-905-18	s TRANSISTOR DTC144EU
Q807	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q808	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q809	8-729-905-18	s TRANSISTOR DTC144EU
Q810	8-729-905-12	s TRANSISTOR DTA144EU
Q811	8-729-906-33	s TRANSISTOR DTC114YU
Q812	8-729-905-18	s TRANSISTOR DTC144EU

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Ref. No. or Q'ty	Part No.	SP Description
Q813	8-729-905-12	s TRANSISTOR DTA144EU
Q850	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q851	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q852	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q853	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q900	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q901	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q902	8-729-807-50	s TRANSISTOR 2SD1623
Q903	8-729-807-50	s TRANSISTOR 2SD1623
Q904	8-729-106-60	s TRANSISTOR 2SB1115A
Q905	8-729-106-60	s TRANSISTOR 2SB1115A
Q906	8-729-106-60	s TRANSISTOR 2SB1115A
R100	1-218-720-11	s METAL, CHIP 15K 0.50% 1/16W
R101	1-218-704-11	s METAL, CHIP 3.3K 0.50% 1/16W
R102	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R103	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R104	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R105	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R106	1-216-822-11	s METAL, CHIP 1.2K 5% 1/16W
R107	1-218-313-11	s METAL, CHIP 560 1% 1/16W
R108	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R109	1-218-698-11	s METAL, CHIP 1.8K 0.50% 1/16W
R110	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R111	1-218-290-11	s METAL, CHIP 6.2K 5% 1/16W
R112	1-218-272-11	s METAL, CHIP 5.1K 5% 1/16W
R113	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R114	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R115	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R116	1-216-822-11	s METAL, CHIP 1.2K 5% 1/16W
R117	1-216-840-11	s METAL, CHIP 39K 5% 1/16W
R118	1-218-704-11	s METAL, CHIP 3.3K 0.50% 1/16W
R119	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R120	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R121	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R122	1-218-720-11	s METAL, CHIP 15K 0.50% 1/16W
R123	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R124	1-218-184-11	s METAL, CHIP 997 0.1% 1/16W
R126	1-218-922-11	s METAL, CHIP 3.26K 0.10% 1/16W
R127	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R128	1-218-668-11	s METAL, CHIP 100 0.50% 1/16W
R129	1-218-289-11	s METAL, CHIP 510 5% 1/16W
R130	1-218-668-11	s METAL, CHIP 100 0.50% 1/16W
R131	1-218-295-11	s METAL, CHIP 4.3K 5% 1/16W
R132	1-218-720-11	s METAL, CHIP 15K 0.50% 1/16W
R133	1-218-271-11	s METAL, CHIP 2K 0.50% 1/16W
R134	1-218-271-11	s METAL, CHIP 2K 0.50% 1/16W
R135	1-216-865-11	s METAL, CHIP 3K 5% 1/16W
R136	1-218-271-11	s METAL, CHIP 2K 0.50% 1/16W
R137	1-216-826-11	s METAL, CHIP 2.7K 5% 1/16W
R138	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R139	1-216-823-11	s METAL, CHIP 1.5K 5% 1/16W
R141	1-218-706-11	s METAL, CHIP 3.9K 0.50% 1/16W
R142	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R143	1-218-723-11	s METAL, CHIP 20K 0.50% 1/16W
R144	1-218-735-11	s METAL, CHIP 62K 0.50% 1/16W
R145	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R146	1-218-296-11	s METAL, CHIP 75K 5% 1/16W
R147	1-216-834-11	s METAL, CHIP 12K 5% 1/16W

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Ref. No. or Q'ty	Part No.	SP Description
R148	1-216-838-11	s METAL, CHIP 27K 5% 1/16W
R149	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R150	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R151	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R152	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R153	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R154	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R155	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R156	1-216-865-11	s METAL, CHIP 3K 5% 1/16W
R157	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R158	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R159	1-218-676-11	s METAL, CHIP 220 0.50% 1/16W
R160	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R161	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R162	1-216-834-11	s METAL, CHIP 12K 5% 1/16W
R164	1-216-826-11	s METAL, CHIP 2.7K 5% 1/16W
R165	1-216-865-11	s METAL, CHIP 3K 5% 1/16W
R166	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R167	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R168	1-218-668-11	s METAL, CHIP 100 0.50% 1/16W
R169	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R170	1-216-826-11	s METAL, CHIP 2.7K 5% 1/16W
R171	1-218-698-11	s METAL, CHIP 1.8K 0.50% 1/16W
R172	1-218-704-11	s METAL, CHIP 3.3K 0.50% 1/16W
R173	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R174	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R175	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R176	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R177	1-216-838-11	s METAL, CHIP 27K 5% 1/16W
R178	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R179	1-218-720-11	s METAL, CHIP 15K 0.50% 1/16W
R181	1-216-836-11	s METAL, CHIP 18K 5% 1/16W
R183	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R184	1-218-723-11	s METAL, CHIP 20K 0.50% 1/16W
R200	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R201	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R202	1-218-676-11	s METAL, CHIP 220 0.50% 1/16W
R203	1-218-676-11	s METAL, CHIP 220 0.50% 1/16W
R204	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R205	1-218-698-11	s METAL, CHIP 1.8K 0.50% 1/16W
R206	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R207	1-218-698-11	s METAL, CHIP 1.8K 0.50% 1/16W
R208	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R209	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R210	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R211	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R212	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R213	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R214	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R215	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R216	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R217	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R218	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R219	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R220	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R221	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R222	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R223	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R224	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W

## (VO-34P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R225	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R226	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R227	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R228	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R229	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R230	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R231	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R232	1-216-308-00	s METAL, CHIP 4.7 5% 1/10W
R233	1-216-613-11	s METAL, CHIP 27 0.5% 1/10W
R234	1-216-308-00	s METAL, CHIP 4.7 5% 1/10W
R235	1-216-613-11	s METAL, CHIP 27 0.5% 1/10W
R236	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R237	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R238	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R239	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R242	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R243	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R244	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R245	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R246	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R247	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R250	1-216-801-11	s METAL, CHIP 22 5% 1/16W
R251	1-216-801-11	s METAL, CHIP 22 5% 1/16W
R300	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R301	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R302	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R303	1-218-695-11	s METAL, CHIP 1.3K 0.50% 1/16W
R304	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R305	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R306	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R307	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R308	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R309	1-216-815-11	s METAL, CHIP 330 5% 1/16W
R310	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R311	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R312	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R314	1-218-883-11	s METAL, CHIP 33K 0.50% 1/16W
R315	1-216-838-11	s METAL, CHIP 27K 5% 1/16W
R316	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R317	1-218-313-11	s METAL, CHIP 560 1% 1/16W
R350	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R351	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R352	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R353	1-218-695-11	s METAL, CHIP 1.3K 0.50% 1/16W
R354	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R355	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R356	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R357	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R358	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R359	1-216-815-11	s METAL, CHIP 330 5% 1/16W
R360	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R361	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R362	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R364	1-218-883-11	s METAL, CHIP 33K 0.50% 1/16W
R365	1-216-838-11	s METAL, CHIP 27K 5% 1/16W
R366	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R367	1-218-313-11	s METAL, CHIP 560 1% 1/16W
R370	1-249-421-11	s CARBON 2.2K 5% 1/4W
R371	1-249-421-11	s CARBON 2.2K 5% 1/4W

## (VO-34P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R400	1-218-740-11	s METAL, CHIP 100K 0.50% 1/16W
R401	1-218-732-11	s METAL, CHIP 47K 0.50% 1/16W
R402	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R403	1-218-668-11	s METAL, CHIP 100 0.50% 1/16W
R404	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R406	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R407	1-218-668-11	s METAL, CHIP 100 0.50% 1/16W
R408	1-216-834-11	s METAL, CHIP 12K 5% 1/16W
R409	1-218-706-11	s METAL, CHIP 3.9K 0.50% 1/16W
R410	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R411	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R412	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R413	1-216-994-11	s METAL, CHIP 13K 0.50% 1/16W
R414	1-218-732-11	s METAL, CHIP 47K 0.50% 1/16W
R415	1-216-838-11	s METAL, CHIP 27K 5% 1/16W
R416	1-218-700-11	s METAL, CHIP 2.2K 0.50% 1/16W
R418	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R419	1-218-676-11	s METAL, CHIP 220 0.50% 1/16W
R420	1-218-733-11	s METAL, CHIP 51K 0.50% 1/16W
R421	1-218-736-11	s METAL, CHIP 68K 0.50% 1/16W
R422	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R423	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R424	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R425	1-218-706-11	s METAL, CHIP 3.9K 0.50% 1/16W
R450	1-218-732-11	s METAL, CHIP 47K 0.50% 1/16W
R451	1-218-732-11	s METAL, CHIP 47K 0.50% 1/16W
R452	1-216-826-11	s METAL, CHIP 2.7K 5% 1/16W
R453	1-218-883-11	s METAL, CHIP 33K 0.50% 1/16W
R454	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R455	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R500	1-218-676-11	s METAL, CHIP 220 0.50% 1/16W
R501	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R502	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R503	1-218-698-11	s METAL, CHIP 1.8K 0.50% 1/16W
R504	1-218-295-11	s METAL, CHIP 4.3K 5% 1/16W
R505	1-216-822-11	s METAL, CHIP 1.2K 5% 1/16W
R506	1-216-840-11	s METAL, CHIP 39K 5% 1/16W
R507	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R508	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R509	1-218-698-11	s METAL, CHIP 1.8K 0.50% 1/16W
R510	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R511	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R512	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R513	1-216-865-11	s METAL, CHIP 3K 5% 1/16W
R514	1-218-704-11	s METAL, CHIP 3.3K 0.50% 1/16W
R515	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R516	1-216-826-11	s METAL, CHIP 2.7K 5% 1/16W
R517	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R519	1-216-865-11	s METAL, CHIP 3K 5% 1/16W
R520	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R521	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R522	1-218-184-11	s METAL, CHIP 997 0.1% 1/16W
R523	1-218-668-11	s METAL, CHIP 100 0.50% 1/16W
R525	1-218-922-11	s METAL, CHIP 3.26K 0.10% 1/16W
R526	1-218-271-11	s METAL, CHIP 2K 0.50% 1/16W
R527	1-218-677-11	s METAL, CHIP 240 0.50% 1/16W
R528	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R529	1-216-838-11	s METAL, CHIP 27K 5% 1/16W
R530	1-216-836-11	s METAL, CHIP 18K 5% 1/16W

## (VO-34P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R531	1-218-668-11	s METAL, CHIP 100 0.50% 1/16W
R532	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R533	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R534	1-218-720-11	s METAL, CHIP 15K 0.50% 1/16W
R535	1-216-840-11	s METAL, CHIP 39K 5% 1/16W
R536	1-218-700-11	s METAL, CHIP 2.2K 0.50% 1/16W
R538	1-216-826-11	s METAL, CHIP 2.7K 5% 1/16W
R539	1-218-698-11	s METAL, CHIP 1.8K 0.50% 1/16W
R540	1-216-823-11	s METAL, CHIP 1.5K 5% 1/16W
R541	1-218-704-11	s METAL, CHIP 3.3K 0.50% 1/16W
R542	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R543	1-218-272-11	s METAL, CHIP 5.1K 5% 1/16W
R544	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R545	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R546	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R547	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R548	1-218-735-11	s METAL, CHIP 62K 0.50% 1/16W
R549	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R550	1-218-296-11	s METAL, CHIP 75K 5% 1/16W
R551	1-216-838-11	s METAL, CHIP 27K 5% 1/16W
R552	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R553	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R554	1-218-727-11	s METAL, CHIP 30K 0.50% 1/16W
R555	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R556	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R557	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R558	1-218-883-11	s METAL, CHIP 33K 0.50% 1/16W
R559	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R560	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R561	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R562	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R563	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R564	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R565	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R566	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R567	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R568	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R569	1-216-822-11	s METAL, CHIP 1.2K 5% 1/16W
R570	1-216-822-11	s METAL, CHIP 1.2K 5% 1/16W
R571	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R572	1-218-738-11	s METAL, CHIP 82K 0.5% 1/16W
R573	1-218-733-11	s METAL, CHIP 51K 0.50% 1/16W
R574	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R600	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R601	1-218-704-11	s METAL, CHIP 3.3K 0.50% 1/16W
R602	1-218-289-11	s METAL, CHIP 510 5% 1/16W
R603	1-218-289-11	s METAL, CHIP 510 5% 1/16W
R604	1-220-373-11	s METAL, CHIP 62K 0.50% 1/16W
R605	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R606	1-218-704-11	s METAL, CHIP 3.3K 0.50% 1/16W
R607	1-218-288-11	s METAL, CHIP 300 5% 1/16W
R608	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R609	1-218-704-11	s METAL, CHIP 3.3K 0.50% 1/16W
R610	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R611	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R612	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R613	1-218-676-11	s METAL, CHIP 220 0.50% 1/16W
R614	1-218-676-11	s METAL, CHIP 220 0.50% 1/16W
R615	1-216-821-11	s METAL, CHIP 1K 5% 1/16W

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Ref. No. or Q'ty	Part No.	SP Description
R616	1-218-698-11	s METAL, CHIP 1.8K 0.50% 1/16W
R617	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R618	1-218-698-11	s METAL, CHIP 1.8K 0.50% 1/16W
R619	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R620	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R621	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R622	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R623	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R624	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R625	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R626	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R627	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R628	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R629	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R630	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R631	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R632	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R633	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R634	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R635	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R636	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R637	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R638	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R639	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R640	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R641	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R642	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R643	1-216-308-00	s METAL, CHIP 4.7 5% 1/10W
R644	1-216-613-11	s METAL, CHIP 27 0.5% 1/10W
R645	1-216-308-00	s METAL, CHIP 4.7 5% 1/10W
R646	1-216-613-11	s METAL, CHIP 27 0.5% 1/10W
R647	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R648	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R649	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R650	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R653	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R654	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R655	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R656	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R657	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R658	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R660	1-216-801-11	s METAL, CHIP 22 5% 1/16W
R661	1-216-801-11	s METAL, CHIP 22 5% 1/16W
R700	1-218-723-11	s METAL, CHIP 20K 0.50% 1/16W
R701	1-218-723-11	s METAL, CHIP 20K 0.50% 1/16W
R702	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R703	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R704	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R705	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R706	1-218-668-11	s METAL, CHIP 100 0.50% 1/16W
R707	1-218-668-11	s METAL, CHIP 100 0.50% 1/16W
R708	1-218-704-11	s METAL, CHIP 3.3K 0.50% 1/16W
R709	1-218-704-11	s METAL, CHIP 3.3K 0.50% 1/16W
R710	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R711	1-218-704-11	s METAL, CHIP 3.3K 0.50% 1/16W
R712	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R713	1-218-704-11	s METAL, CHIP 3.3K 0.50% 1/16W
R714	1-218-668-11	s METAL, CHIP 100 0.50% 1/16W
R715	1-218-668-11	s METAL, CHIP 100 0.50% 1/16W

## (V0-34P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R716	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R717	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R718	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R719	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R720	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R721	1-216-811-11	s METAL, CHIP 150 5% 1/16W
R722	1-218-676-11	s METAL, CHIP 220 0.50% 1/16W
R723	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R724	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R725	1-216-807-11	s METAL, CHIP 68 5% 1/16W
R750	1-218-723-11	s METAL, CHIP 20K 0.50% 1/16W
R751	1-218-723-11	s METAL, CHIP 20K 0.50% 1/16W
R752	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R753	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R754	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R755	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R756	1-218-668-11	s METAL, CHIP 100 0.50% 1/16W
R757	1-218-668-11	s METAL, CHIP 100 0.50% 1/16W
R758	1-218-704-11	s METAL, CHIP 3.3K 0.50% 1/16W
R759	1-218-704-11	s METAL, CHIP 3.3K 0.50% 1/16W
R760	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R761	1-218-704-11	s METAL, CHIP 3.3K 0.50% 1/16W
R762	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R763	1-218-704-11	s METAL, CHIP 3.3K 0.50% 1/16W
R764	1-218-668-11	s METAL, CHIP 100 0.50% 1/16W
R765	1-218-668-11	s METAL, CHIP 100 0.50% 1/16W
R766	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R767	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R768	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R769	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R770	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R771	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R772	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R773	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R774	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R775	1-216-807-11	s METAL, CHIP 68 5% 1/16W
R800	1-218-668-11	s METAL, CHIP 100 0.50% 1/16W
R801	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R802	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R803	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R804	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R805	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R806	1-218-706-11	s METAL, CHIP 3.9K 0.50% 1/16W
R807	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R808	1-218-704-11	s METAL, CHIP 3.3K 0.50% 1/16W
R809	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R810	1-216-823-11	s METAL, CHIP 1.5K 5% 1/16W
R811	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R812	1-218-706-11	s METAL, CHIP 3.9K 0.50% 1/16W
R813	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R814	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R815	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R816	1-216-847-11	s METAL, CHIP 150K 5% 1/16W
R817	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R818	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R819	1-218-704-11	s METAL, CHIP 3.3K 0.50% 1/16W
R820	1-218-698-11	s METAL, CHIP 1.8K 0.50% 1/16W
R821	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R822	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W



## (VO-34P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R823	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R824	1-218-676-11	s METAL, CHIP 220 0.50% 1/16W
R825	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R826	1-216-819-11	s METAL, CHIP 680 5% 1/16W
R827	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R828	1-218-883-11	s METAL, CHIP 33K 0.50% 1/16W
R829	1-218-332-11	s METAL, CHIP 130K 0.50% 1/16W
R830	1-216-834-11	s METAL, CHIP 12K 5% 1/16W
R831	1-216-853-11	s METAL, CHIP 470K 5% 1/16W
R832	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R833	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R834	1-218-732-11	s METAL, CHIP 47K 0.50% 1/16W
R835	1-216-853-11	s METAL, CHIP 470K 5% 1/16W
R836	1-216-834-11	s METAL, CHIP 12K 5% 1/16W
R837	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R838	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R839	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R840	1-216-834-11	s METAL, CHIP 12K 5% 1/16W
R841	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R842	1-216-807-11	s METAL, CHIP 68 5% 1/16W
R850	1-216-815-11	s METAL, CHIP 330 5% 1/16W
R851	1-218-704-11	s METAL, CHIP 3.3K 0.50% 1/16W
R852	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R853	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R855	1-216-820-11	s METAL, CHIP 820 5% 1/16W
R856	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R857	1-216-823-11	s METAL, CHIP 1.5K 5% 1/16W
R858	1-216-819-11	s METAL, CHIP 680 5% 1/16W
R859	1-218-668-11	s METAL, CHIP 100 0.50% 1/16W
R860	1-216-831-11	s METAL, CHIP 6.8K 5% 1/16W
R861	1-218-732-11	s METAL, CHIP 47K 0.50% 1/16W
R862	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R863	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R864	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R865	1-216-823-11	s METAL, CHIP 1.5K 5% 1/16W
R866	1-218-285-11	s METAL, CHIP 75 5% 1/16W
R867	1-218-285-11	s METAL, CHIP 75 5% 1/16W
R900	1-218-740-11	s METAL, CHIP 100K 0.50% 1/16W
R901	1-218-740-11	s METAL, CHIP 100K 0.50% 1/16W
R902	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R903	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R904	1-218-732-11	s METAL, CHIP 47K 0.50% 1/16W
R905	1-218-732-11	s METAL, CHIP 47K 0.50% 1/16W
R906	1-218-732-11	s METAL, CHIP 47K 0.50% 1/16W
R907	1-218-732-11	s METAL, CHIP 47K 0.50% 1/16W
R908	1-216-819-11	s METAL, CHIP 680 5% 1/16W
R909	1-216-819-11	s METAL, CHIP 680 5% 1/16W
R910	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R911	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R912	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R913	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R914	1-216-826-11	s METAL, CHIP 2.7K 5% 1/16W
R915	1-216-826-11	s METAL, CHIP 2.7K 5% 1/16W
RV100	1-237-032-11	s RES, ADJ, METAL 500
RV101	1-237-034-11	s RES, ADJ, METAL 2K
RV102	1-237-035-11	s RES, ADJ, METAL 5K
RV103	1-237-034-11	s RES, ADJ, METAL 2K
RV104	1-237-035-11	s RES, ADJ, METAL 5K

## (VO-34P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
RV105	1-237-037-11	s RES, ADJ, METAL 20K
RV106	1-237-034-11	s RES, ADJ, METAL 2K
RV107	1-237-034-11	s RES, ADJ, METAL 2K
RV108	1-237-036-11	s RES, ADJ, METAL 10K
RV200	1-237-035-11	s RES, ADJ, METAL 5K
RV201	1-237-030-11	s RES, ADJ, METAL 100
RV202	1-237-033-11	s RES, ADJ, METAL 1K
RV250	1-237-035-11	s RES, ADJ, METAL 5K
RV251	1-237-030-11	s RES, ADJ, METAL 100
RV252	1-237-033-11	s RES, ADJ, METAL 1K
RV300	1-237-033-11	s RES, ADJ, METAL 1K
RV301	1-237-033-11	s RES, ADJ, METAL 1K
RV302	1-237-036-11	s RES, ADJ, METAL 10K
RV351	1-237-033-11	s RES, ADJ, METAL 1K
RV352	1-237-036-11	s RES, ADJ, METAL 10K
RV400	1-237-037-11	s RES, ADJ, METAL 20K
RV401	1-237-037-11	s RES, ADJ, METAL 20K
RV450	1-237-037-11	s RES, ADJ, METAL 20K
RV451	1-237-037-11	s RES, ADJ, METAL 20K
RV500	1-237-034-11	s RES, ADJ, METAL 2K
RV501	1-237-034-11	s RES, ADJ, METAL 2K
RV502	1-237-035-11	s RES, ADJ, METAL 5K
RV503	1-237-036-11	s RES, ADJ, METAL 10K
RV504	1-237-036-11	s RES, ADJ, METAL 10K
RV505	1-237-037-11	s RES, ADJ, METAL 20K
RV506	1-237-034-11	s RES, ADJ, METAL 2K
RV507	1-237-034-11	s RES, ADJ, METAL 2K
RV508	1-237-036-11	s RES, ADJ, METAL 10K
RV600	1-237-035-11	s RES, ADJ, METAL 5K
RV601	1-237-030-11	s RES, ADJ, METAL 100
RV602	1-237-032-11	s RES, ADJ, METAL 500
RV650	1-237-035-11	s RES, ADJ, METAL 5K
RV651	1-237-030-11	s RES, ADJ, METAL 100
RV652	1-237-032-11	s RES, ADJ, METAL 500
RV700	1-237-033-11	s RES, ADJ, METAL 1K
RV701	1-237-033-11	s RES, ADJ, METAL 1K
RV750	1-237-033-11	s RES, ADJ, METAL 1K
RV751	1-237-033-11	s RES, ADJ, METAL 1K
RV800	1-237-036-11	s RES, ADJ, METAL 10K
RV850	1-237-030-11	s RES, ADJ, METAL 100
SP200	1-566-388-11	s CONNECTOR, 8P, MALE
SP201	1-566-388-11	s CONNECTOR, 8P, MALE
SP202	1-566-388-11	s CONNECTOR, 8P, MALE
SP600	1-566-388-11	s CONNECTOR, 8P, MALE
SP601	1-566-388-11	s CONNECTOR, 8P, MALE
SP602	1-566-388-11	s CONNECTOR, 8P, MALE
SS200	1-565-413-11	o PLUG, SHORTING
SS201	1-565-413-11	o PLUG, SHORTING
SS202	1-565-413-11	o PLUG, SHORTING
SS600	1-565-413-11	o PLUG, SHORTING
SS601	1-565-413-11	o PLUG, SHORTING
SS602	1-565-413-11	o PLUG, SHORTING
T200	1-427-595-11	s TRANSFORMER, RF INPUT
T201	1-427-595-11	s TRANSFORMER, RF INPUT
T600	1-423-254-11	s TRANSFORMER, RF INPUT
T601	1-423-254-11	s TRANSFORMER, RF INPUT
TH400	1-809-308-21	s THERMISTOR, CHIP 3.3K



(V0-34P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
TR2	8-769-401-59	s TRANSISTOR 2SK613-3
TR3	8-769-401-59	s TRANSISTOR 2SK613-3
X400	1-567-864-11	s CRYSTAL, 10.737635MHz
X560	1-579-412-11	s RESONATOR, CERAMIC 310KHz
X561	1-579-413-11	s RESONATOR, CERAMIC 540KHz

(V0-34P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
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## FRAME

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6050-833-A	s DRUM ASSY, DBH-23A-R
1pc	1-466-600-11	s CONVERTER DC-DC
1pc	1-543-316-21	s HEAD, SENSING(SMALL TYPE)"TAPE TOP"
1pc	1-543-316-21	s HEAD, SENSING(SMALL TYPE)"TAPE END"
1pc	1-690-117-11	s WIRE, FLEXIBLE CARD 25P (MB-362 board to MB-363 board)
1pc	1-690-118-11	s WIRE, FLEXIBLE CARD 15P (MB-362 board to CN-504 board)
1pc	1-690-119-11	s WIRE, FLEXIBLE CARD 16P (MB-363 board to VO-34 board)
1pc	1-690-120-11	s WIRE, FLEXIBLE CARD 20P (MB-362 board to CN-504 board)
1pc	1-690-121-11	s WIRE, FLEXIBLE CARD 26P (VO-34 board to MB-363 board)
1pc	1-806-682-81	s SENSOR, DEW CONDENSATION
CN1	1-560-999-41	s CONNECTOR, XLR 4P, MALE "EXT DC IN"
CN001F (to AU-144P board)		1-569-197-21 o HOUSING 4P 1-569-193-11 o CONTACT, FEMALE
CN001F (to CN-505 board)		1-562-256-00 o HOUSING 6P 1-562-260-11 o CONTACT, IL-S, FEMALE AWG24-28
CN001F (to KY-211 board)		1-565-129-11 o HOUSING 10P 1-565-164-11 o CONTACT, FEMALE AWG28-26
CN002F (to EXT DC IN)		1-565-169-11 o HOUSING 7P 1-562-260-11 o CONTACT, IL-S, FEMALE AWG24-28
CN002F (to AU-144P board)		1-569-197-11 o HOUSING 4P 1-569-193-11 o CONTACT, FEMALE AWG24-30
CN002F (to SS-46P board)		1-569-206-11 o HOUSING 13P 1-569-193-11 o CONTACT, FEMALE AWG24-30
CN002F (to TC-60P board)		1-569-206-11 o HOUSING 13P 1-569-193-11 o CONTACT, FEMALE AWG24-30
CN003F (to AU-144P board)		1-569-198-11 o HOUSING 5P 1-569-193-11 o CONTACT, FEMALE AWG24-30
CN003F (to CN-560 board)		1-562-256-00 o HOUSING 6P 1-562-260-11 o CONTACT, IL-S, FEMALE AWG24-28
CN003F (to MB-363 board)		1-569-201-11 o HOUSING 8P 1-569-193-11 o CONTACT, FEMALE AWG24-30
CN003F (to VO-34P board)		1-569-196-11 o HOUSING 3P 1-569-191-11 o CONTACT, FEMALE, AWG22-26 1-569-193-11 o CONTACT, FEMALE AWG24-30

## (FRAME)

Ref. No. or Q'ty	Part No.	SP Description
CN004F (to AU-144P board)		1-569-197-11 o HOUSING 4P 1-569-193-11 o CONTACT, FEMALE AWG24-30
CN004F (to MB-362 board)		1-569-198-11 o HOUSING 5P 1-569-193-11 o CONTACT, FEMALE AWG24-30
CN004F (to SS-46P board)		1-569-195-11 s HOUSING 2P 1-569-193-11 o CONTACT, FEMALE AWG24-30
CN004F (to VO-34P board)		1-569-196-11 o HOUSING 3P 1-569-191-11 o CONTACT, FEMALE AWG22-26 1-569-193-11 o CONTACT, FEMALE AWG24-30
CN005F (to AU-144P board)		1-569-196-11 o HOUSING 3P 1-569-191-11 o CONTACT, FEMALE AWG22-26 1-569-193-11 o CONTACT, FEMALE AWG24-30
CN005F (to MB-363 board)		1-562-255-00 o HOUSING 5P 1-562-260-11 o IL-S, FEMALE AWG24-28
CN005F (to VO-34P board)		1-569-196-11 o HOUSING 3P 1-569-193-11 o CONTACT, FEMALE AWG24-30
CN006F (to AU-144P board)		1-569-199-11 o HOUSING 6P 1-569-193-11 o CONTACT, FEMALE AWG24-30
CN006F (to MB-363 board)		1-569-196-11 o HOUSING 3P 1-569-191-11 o CONTACT, FEMALE AWG22-26
CN006F (to SS-46P board)		1-565-129-11 o HOUSING 10P 1-565-164-11 o CONTACT, FEMALE AWG28-26
CN006F (to VO-34P board)		1-569-196-11 o HOUSING 3P 1-569-191-11 o CONTACT, FEMALE AWG22-26 1-569-193-11 o CONTACT, FEMALE AWG24-30
CN007F (to MB-363 board)		1-580-696-11 o HOUSING 9P 1-562-260-11 o IL-S, FEMALE AWG24-28
CN007F (to SS-46P board)		1-569-195-11 o HOUSING 2P 1-569-193-11 o CONTACT, FEMALE AWG24-30
CN007F (to VO-34P board)		1-569-196-11 o HOUSING 3P 1-569-191-11 o CONTACT, FEMALE AWG22-26 1-569-193-11 o CONTACT, FEMALE AWG24-30
CN012F (to MB-363 board)		1-569-199-11 o HOUSING 6P 1-569-193-11 o CONTACT, FEMALE AWG24-30
CN101F (to TC-60P board)		1-569-196-11 o HOUSING 3P 1-569-191-11 o CONTACT, FEMALE, AWG22-26 1-569-193-11 o CONTACT, FEMALE

## (FRAME)

Ref. No. or Q'ty	Part No.	SP Description
CN102F	(to TC-60P board)	
	1-569-196-11 o	HOUSING 3P
	1-569-191-11 o	CONTACT, FEMALE, AWG22-26
	1-569-193-11 o	CONTACT, FEMALE
CN104F	(to TC-60P board)	
	1-569-196-11 o	HOUSING 3P
	1-569-193-11 o	CONTACT, FEMALE AWG24-30
CN105F	(to TC-60P board)	
	1-569-196-11 o	HOUSING 3P
	1-569-193-11 o	CONTACT, FEMALE AWG24-30
CN106F	(to TC-60P board)	
	1-569-195-11 s	HOUSING 2P
	1-569-193-11 o	CONTACT, FEMALE AWG24-30
CN107F	(to TC-60P board)	
	1-569-195-11 s	HOUSING 2P
	1-569-193-11 o	CONTACT, FEMALE AWG24-30
CN108F	(to MB-362 board)	
	1-569-197-11 o	HOUSING 4P
	1-569-193-11 o	CONTACT, FEMALE AWG24-30
CN109F	(to MB-362 board)	
	1-569-199-11 o	HOUSING 6P
	1-569-193-11 o	CONTACT, FEMALE AWG24-30
CN201F	(to LD-39 board)	
	1-580-591-11 o	HOUSING 22P
	1-580-599-11 o	CONTACT, FEMALE AWG26-30
CN201F	(to SS-46P board)	
	1-569-197-11 o	HOUSING 4P
	1-569-193-11 o	CONTACT, FEMALE AWG24-30
CN202F	(to LD-39 board)	
	1-569-197-11 o	HOUSING 4P
	1-569-193-11 o	CONTACT, FEMALE AWG24-30
CN202F	(to SS-46P board)	
	1-569-195-11 s	HOUSING 2P
	1-569-193-11 o	CONTACT, FEMALE AWG24-30
CN203F	(to SS-46P board)	
	1-569-202-11 o	HOUSING 9P
	1-569-193-11 o	CONTACT, FEMALE AWG24-30
CN204F	(to SS-46P board)	
	1-569-196-11 o	HOUSING 3P
	1-569-191-11 o	CONTACT, FEMALE AWG22-26
	1-569-193-11 o	CONTACT, FEMALE AWG24-30
CN301F	(to CAPSTAN MOTOR)	
	1-569-202-11 o	HOUSING 9P
	1-569-193-11 o	CONTACT, FEMALE AWG24-30
CN501F	(to AH-36 board)	
	1-573-745-11 o	HOUSING 2P
	1-568-030-21 o	CONTACT, FEMALE
CN502F	(to AH-36 board)	
	1-573-745-11 o	HOUSING 2P
	1-568-030-21 o	CONTACT, FEMALE
CN503F	(to AH-36 board)	
	1-573-745-11 o	HOUSING 2P
	1-568-030-21 o	CONTACT, FEMALE

## (FRAME)

Ref. No. or Q'ty	Part No.	SP Description
CN9006	1-573-618-11 s	CONNECTOR, XLR 3P, FEMALE "CH-1/CH-2 AUDIO IN"
CN9202	1-562-382-31 s	CONNECTOR, BNC, FEMALE "EXT TIME CODE IN"
CN9203	1-562-382-31 s	CONNECTOR, BNC, FEMALE "EXT TIME CODE OUT"
CN9204	1-562-382-31 s	CONNECTOR, BNC, FEMALE "GEN LOCK VIDEO IN"
CN9205	1-562-382-31 s	CONNECTOR, BNC, FEMALE "VIDEO OUT"
FB	1-543-157-00 s	BEAD, FERRITE
H1	A-6762-455-A s	UPPER DRUM ASSY, DBR-23-R
H2	8-825-554-83 s	HEAD, CTL PS244-21B "CTL"
H3	8-825-770-72 s	HEAD, FE EF291-21 "FULL ERASE"
H4	8-825-776-11 s	HEAD, AU PS244-2103D "AU CH-1/CH-2 R/P, TC"
M1	A-6737-208-A s	MOTOR ASSY "DRUM"
M2	8-835-437-01 s	MOTOR, DC SCV-0201A "CAPSTAN"
M3	8-835-461-01 s	MOTOR, DC LN22-M16Z1B "REEL"
M4	8-835-462-01 s	MOTOR, DC DN20-Q7Z2B "THREAD"
ME1	1-520-495-11 s	METER, LEVEL "CH-1"
ME2	1-520-495-21 s	METER, LEVEL "CH-2"
PM1	1-454-445-21 s	SOLENOID "PINCH"
PM2	1-454-382-31 s	SOLENOID "BRAKE"
RV1	1-237-790-11 s	RES, VAR CARBON 10K "CH-1 REC LEVEL"
RV2	1-237-790-11 s	RES, VAR CARBON 10K "CH-2 REC LEVEL"
RV3	1-237-790-21 s	RES, VAR CARBON 10K "MONITOR LEVEL"
RV4	1-237-790-21 s	RES, VAR CARBON 10K "ALARM LEVEL"
SP1	1-503-293-00 o	SPEAKER
S1	1-553-448-00 s	SWITCH, TOGGLE

# --- PACKING MATERIALS & SUPPLIED ACCESSORIES

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6772-374-A	s BELT ASSY, SHOULDER
1pc	3-172-687-01	o INDIVIDUAL CARTON
1pc	3-172-010-01	o CUSHION (UPPER)
1pc	3-172-011-01	o CUSHION (LOWER)
4pcs	3-717-823-01	s COVER, BNC
1pc	3-718-084-01	o BOX, ACCESSORY
1pc	3-753-945-01	s MANUAL, INSTRUCTION (JAPANESE)
1pc	3-753-945-11	s MANUAL, INSTRUCTION (ENGLISH)
1pc	3-753-945-41	s MANUAL, INSTRUCTION (FRENCH)
1pc	3-753-945-51	s MANUAL, INSTRUCTION (GERMAN)
1pc	3-753-945-61	s MANUAL, INSTRUCTION (ITALIAN)
2pc	7-682-560-09	s SCREW +B 4X6
2pc	7-682-563-09	s SCREW +B 4X12

# --- OPTIONAL FIXTURE

Part No.	SP Description
J-6001-820-A	o DRUM ECCENTRICITY GAUGE (3)
J-6001-830-A	o DRUM ECCENTRICITY GAUGE (2)
J-6001-840-A	o DRUM ECCENTRICITY GAUGE (1)
or	
J-6325-530-A	o DRUM ECCENTRICITY GAUGE (6)
J-6087-000-A	o DRUM ECCENTRICITY GAUGE (5)
J-6080-003-C	o T TYPE TORQUE MEASUREMENT CASSETTE
J-6080-008-A	o CASSETTE REFERENCE PLATE
J-6080-011-A	o REEL TABLE TENSION GAUGE
J-6080-029-A	o SMALL MIRROR FOR ADJUSTMENT
J-6086-570-A	o PARALLEL BOARD
J-6152-450-A	o WIRE CLEARANCE CHECK GAUGE
J-6190-800-A	o TENSION REGULATOR SCANTNESS CHECK TOOL
J-6321-040-A	o DRIVER
J-6321-500-A	o TAPE GUIDE ADJUSTMENT DRIVER
J-6332-290-A	o SERVO REMOTE CONTROL TOOL (EW-229)
J-6335-790-A	o DEVIATION CHECKER (EW-579)
J-6337-830-A	o CAMERA TOOL
J-6330-040-A	o CABLE (EW-804)
2-034-697-00	o CLEANING PIECE
7-661-018-18	o OIL
7-662-010-04	o GREASE (SGL-505)
7-700-736-05	o HEXAGONAL SRENCH (across / at has 1.5mm)
7-700-736-06	o HEXAGONAL WRENCH (across / at has 0.89mm)
7-732-050-30	o TENSION SCALE (100G)
7-732-050-40	o TENSION SCALE (200G)
8-960-096-51	o ALIGNMENT TAPE, CR2-1BPS
8-960-096-86	o ALIGNMENT TAPE, CR8-1BPS
8-960-096-91	o ALIGNMENT TAPE, CR5-1BPS
8-960-098-44	o ALIGNMENT TAPE, CR5-2APS
8-960-098-45	o ALIGNMENT TAPE, CR8-1APS
9-919-573-01	o CLEANING FLUID
Standard produsts	TENTELOMETER (U2-H7-UMC)

## SECTION 14

### CHANGED PART

NOTE: The numbers identified by making with ) are matching with each serial numbers.

106) Serial No. 10101 through 10500  
 107) Serial No. 10501 through 10800  
 108) Serial No. 10801 and higher

#### AU-144P BOARD

OLD) C23 1-162-915-11 s CERAMIC, CHIP 10PF 5PF 50V  
 107) C23 DELETED.  
 OLD) C55 1-162-967-11 s CERAMIC, CHIP 0.0033uF 10%  
 107) C55 1-162-970-11 s CERAMIC, CHIP 0.01uF 5% 25V  
 OLD) R50 1-216-843-11 s METAL, CHIP 68K 5% 1/16W  
 107) R50 1-216-839-11 s METAL, CHIP 33K 5% 1/16W

OLD) R51 1-216-843-11 s METAL, CHIP 68K 5% 1/16W  
 107) R51 1-216-839-11 s METAL, CHIP 33K 5% 1/16W  
 OLD) R63 1-216-864-11 s METAL, CHIP 0 5% 1/16W  
 108) R63 1-216-295-00 s METAL, CHIP 0-OHM  
 OLD) R64 1-216-864-11 s METAL, CHIP 0 5% 1/16W  
 108) R64 1-216-295-00 s METAL, CHIP 0-OHM

#### DUS-496 BOARD

OLD) 1pc 1-642-156-11 o PRINTED CIRCUIT BOARD, DUS-496  
 107) 1pc DELETED.  
 OLD) Q1 8-729-905-61 s TRANSISTOR DTC124EU  
 107) Q1 DELETED.  
 OLD) Q2 8-729-905-61 s TRANSISTOR DTC124EU  
 107) Q2 DELETED.

OLD) R1 1-216-295-00 s RES, CHIP 0 5% 1/10W  
 107) R1 DELETED.  
 OLD) R2 1-216-699-11 s 100K 0.5% 1/10W  
 107) R2 DELETED.  
 OLD) R3 1-249-421-11 s 2.2K 5% 1/4W  
 107) R3 DELETED.

OLD) R4 1-249-421-11 s 2.2K 5% 1/4W  
 107) R4 DELETED.

#### DUS-852 BOARD

OLD) 1pc 1-641-735-11 o PRINTED CIRCUIT BOARD, DUS-852  
 107) 1pc DELETED.  
 OLD) C601 1-135-091-91 s ELECT, CHIP 1uF 20% 16V  
 107) C601 DELETED.  
 OLD) IC601 8-759-245-06 s IC TC4S584F  
 107) IC601 DELETED.

OLD) IC602 8-759-209-58 s IC TC4S69F  
 107) IC602 DELETED.  
 OLD) R602 1-216-109-00 s METAL, CHIP 330K 5% 1/10W  
 107) R602 DELETED.  
 OLD) R604 1-216-073-00 s 10K 50% 1/10W  
 107) R604 DELETED.

#### SS-46P BOARD

OLD) C244 1-126-630-11 s ELECT 82uF 20% 25V  
 107) C244 1-124-478-11 s ELECT 100uF 20% 25V  
 OLD) C245 1-124-489-11 s ELECT 150uF 20% 25V  
 107) C245 1-124-600-11 s ELECT 270uF 20% 22V  
 OLD) C416 1-126-630-11 s ELECT 82uF 20% 25V  
 107) C416 1-124-478-11 s ELECT 100uF 20% 25V

OLD) C601 NOT IN USE.  
 107) C601 1-135-091-00 s TANTALUM, CHIP 1uF 10% 16V  
 OLD) IC601 NOT IN USE.  
 107) IC601 8-759-245-41 s IC TC4S584F  
 OLD) IC602 NOT IN USE.  
 107) IC602 8-759-209-57 s IC TC4S69F

OLD) Q511 NOT IN USE.  
 107) Q511 8-729-905-61 s TRANSISTOR DTC124EU  
 OLD) Q512 NOT IN USE.  
 107) Q512 8-729-905-61 s TRANSISTOR DTC124EU  
 OLD) R274 1-216-855-11 s METAL, CHIP 680K 5% 1/16W  
 107) R274 1-216-848-11 s METAL, CHIP 180K 5% 1/16W  
 107) R274 1-216-845-11 s METAL, CHIP 100K 5% 1/16W

OLD) R276 1-216-849-11 s METAL, CHIP 220K 5% 1/16W  
 107) R276 1-216-851-11 s METAL, CHIP 330K 5% 1/16W  
 OLD) R284 1-216-849-11 s METAL 220K 5% 1/16W  
 107) R284 1-218-748-11 s METAL 220K 0.5% 1/16W  
 OLD) R323 1-216-837-11 s METAL, CHIP 22K 5% 1/16W  
 107) R323 1-216-841-11 s METAL, CHIP 47K 5% 1/16W

OLD) R324 1-216-837-11 s METAL, CHIP 22K 5% 1/16W  
 107) R324 1-216-841-11 s METAL, CHIP 47K 5% 1/16W  
 OLD) R325 1-216-837-11 s METAL, CHIP 22K 5% 1/16W  
 107) R325 1-216-841-11 s METAL, CHIP 47K 5% 1/16W  
 OLD) R326 1-216-837-11 s METAL, CHIP 22K 5% 1/16W  
 107) R326 1-216-841-11 s METAL, CHIP 47K 5% 1/16W

OLD) R327 1-216-821-11 s METAL, CHIP 1K 5% 1/16W  
 107) R327 1-216-841-11 s METAL, CHIP 1K 5% 1/16W  
 OLD) R349 NOT IN USE.  
 107) R349 1-216-864-11 s METAL, CHIP 0 5% 1/16W  
 OLD) R350 NOT IN USE.  
 107) R350 1-216-821-11 s METAL, CHIP 1K 5% 1/16W

OLD) R604 NOT IN USE.  
 107) R604 1-216-833-11 s METAL, CHIP 10K 5% 1/16W  
 OLD) R605 NOT IN USE.  
 107) R605 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W  
 OLD) R606 NOT IN USE.  
 107) R606 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W

OLD) RV201 1-237-036-11 s RES, ADJ, METAL 10K  
 107) RV201 1-237-035-11 s RES, ADJ, METAL 5K  
 OLD) RV202 1-237-036-11 s RES, ADJ, METAL 10K  
 107) RV202 1-237-035-11 s RES, ADJ, METAL 5K



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TC-60P BOARD

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OLD) C9 1-126-154-11 s ELECT 47uF 20% 6.3V  
106) C9 1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V  
OLD) R155 1-216-795-00 s METAL, CHIP 0 5% 1/10W  
106) R155 DELETED.  
OLD) R255 1-216-795-00 s METAL, CHIP 0 5% 1/10W  
106) R255 DELETED.

OLD) R587 1-216-849-11 s METAL, CHIP 220K 5% 1/16W  
106) R587 1-216-851-11 s METAL, CHIP 330K 0.5% 1/16W  
OLD) R619 1-216-833-11 s METAL, CHIP 10K 5% 1/16W  
106) R619 1-216-821-11 s METAL, CHIP 1K 0.5% 1/16W  
OLD) R632 1-216-849-11 s METAL, CHIP 220K 5% 1/16W  
106) R632 DELETED.

OLD) R651 NOT IN USE.  
108) R651 1-218-738-11 s METAL, CHIP 82K 0.5% 1/16W  
OLD) R702 NOT IN USE.  
106) R702 1-216-864-11 s METAL, CHIP 0 5% 1/16W

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VO-34P BOARD

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OLD) R233 1-216-603-11 s METAL, CHIP 10 5% 1/10W  
107) R233 1-216-613-11 s METAL, CHIP 27 0.5% 1/10W  
OLD) R235 1-216-603-11 s METAL, CHIP 10 5% 1/10W  
107) R235 1-216-613-11 s METAL, CHIP 27 0.5% 1/10W  
OLD) R400 1-216-833-11 s METAL, CHIP 10K 5% 1/16W  
106) R400 DELETED.

OLD) R407 1-216-821-11 s METAL, CHIP 1K 5% 1/16W  
106) R407 1-218-708-11 s METAL, CHIP 4.7K 0.5% 1/16W  
OLD) R644 1-216-603-11 s METAL, CHIP 10 5% 1/10W  
107) R644 1-216-613-11 s METAL, CHIP 27 0.5% 1/10W  
OLD) R646 1-216-603-11 s METAL, CHIP 10 5% 1/10W  
107) R646 1-216-613-11 s METAL, CHIP 27 0.5% 1/10W

PVV-1 P (EK)  
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